

HELSINGIN YLIOPISTO  
HELSINGFORS UNIVERSITET  
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INTERNATIONAL EVALUATION OF RESEARCH AND DOCTORAL  
TRAINING AT THE UNIVERSITY OF HELSINKI 2005–2010

# RC-Specific Evaluation of ARC – Avian Research Community

Seppo Saari & Antti Moilanen (Eds.)



Evaluation Panel: Biological, Agricultural and Veterinary Sciences



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University of Helsinki  
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<b>Title:</b> International Evaluation of Research and Doctoral Training at the University of Helsinki 2005–2010 : RC-Specific Evaluation of ARC – Avian Research Community	<b>Type of publication:</b> Evaluations
<b>Summary:</b> <p>Researcher Community (RC) was a new concept of the participating unit in the evaluation. Participation in the evaluation was voluntary and the RCs had to choose one of the five characteristic categories to participate.</p> <p>Evaluation of the Researcher Community was based on the answers to the evaluation questions. In addition a list of publications and other activities were provided by the TUHAT system. The CWTS/Leiden University conducted analyses for 80 RCs and the Helsinki University Library for 66 RCs.</p> <p>Panellists, 49 and two special experts in five panels evaluated all the evaluation material as a whole and discussed the feedback for RC-specific reports in the panel meetings in Helsinki. The main part of this report is consisted of the feedback which is published as such in the report.</p> <p>Chapters in the report:</p> <ol style="list-style-type: none"> <li>1. Background for the evaluation</li> <li>2. Evaluation feedback for the Researcher Community</li> <li>3. List of publications</li> <li>4. List of activities</li> <li>5. Bibliometric analyses</li> </ol> <p>The level of the RCs' success can be concluded from the written feedback together with the numeric evaluation of four evaluation questions and the category fitness. More conclusions of the success can be drawn based on the University-level report.</p>	
<b>RC-specific information:</b>	
<b>Main scientific field of research:</b> Biological, Agricultural and Veterinary Sciences	<b>RC-specific keywords:</b> bird, evolutionary ecology, behavioural ecology, life-history, ecological genetics, population biology, climate change
<b>Participation category:</b> 1. Research of the participating community represents the international cutting edge in its field	
<b>RC's responsible person:</b> Brommer, Jon	
<b>Keywords:</b> Research Evaluation, Meta-evaluation, Doctoral Training, Bibliometric Analyses, Researcher Community	

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## Foreword

The evaluation of research and doctoral training is being carried out in the years 2010–2012 and will end in 2012. The steering group appointed by the Rector in January 2010 set the conditions for participating in the evaluation and prepared the Terms of Reference to present the evaluation procedure and criteria. The publications and other scientific activities included in the evaluation covered the years 2005–2010.

The participating unit in the evaluation was defined as a Researcher Community (RC). To obtain a critical mass with university-level impact, the number of members was set to range from 20 to 120. The RCs were required to contain researchers in all stages of their research career, from doctoral students to principal investigators (PIs). All in all, 136 Researcher Communities participated in this voluntary evaluation, 5857 persons in total, of whom 1131 were principal investigators. PIs were allowed to participate in two communities in certain cases, and 72 of them used this opportunity and participated in two RCs.

This evaluation enabled researchers to define RCs from the “bottom up” and across disciplines. The aim of the evaluation was not to assess individual performance but a community with shared aims and researcher-training activities. The RCs were able to choose among five different categories that characterised the status and main aims of their research. The steering group considered the process of applying to participate in the evaluation to be important, which led to the establishment of these categories. In addition, providing a service for the RCs to enable them to benchmark their research at the global level was a main goal of the evaluation.

The data for the evaluation consisted of the RCs’ answers to evaluation questions on supplied e-forms and a compilation extracted from the TUHAT – Research Information System (RIS) on 12 April 2011. The compilation covered scientific and other publications as well as certain areas of scientific activities. During the process, the RCs were asked to check the list of publications and other scientific activities and make corrections if needed. These TUHAT compilations are public and available on the evaluation project sites of each RC in the TUHAT-RIS.

In addition to the e-form and TUHAT compilation, University of Leiden (CWTS) carried out bibliometric analyses from the articles included in the Web of Science (WoS). This was done on University and RC levels. In cases where the publication forums of the RC were clearly not represented by the WoS data, the Library of the University of Helsinki conducted a separate analysis of the publications. This was done for 66 RCs representing the humanities and social sciences.

The evaluation office also carried out an enquiry targeted to the supervisors and PhD candidates about the organisation of doctoral studies at the University of Helsinki. This and other documents describing the University and the Finnish higher education system were provided to the panellists.

The panel feedback for each RC is unique and presented as an entity. The first collective evaluation reports available for the whole panel were prepared in July–August 2011. The reports were accessible to all panel members via the electronic evaluation platform in August. Scoring from 1 to 5 was used to complement written feedback in association with evaluation questions 1–4 (scientific focus and quality, doctoral training, societal impact, cooperation) and in addition to the category evaluating the fitness for participation in the evaluation. Panellists used the international level as a point of comparison in the evaluation. Scoring was not expected to go along with a preset deviation.

Each of the draft reports were discussed and dealt with by the panel in meetings in Helsinki (from 11 September to 13 September or from 18 September to 20 September 2011). In these meetings the panels also examined the deviations among the scores and finalised the draft reports together.

The current RC-specific report deals shortly with the background of the evaluation and the terms of participation. The main evaluation feedback is provided in the evaluation report, organised according to the evaluation questions. The original material provided by the RCs for the panellists has been attached to these documents.

On behalf of the evaluation steering group and office, I sincerely wish to thank you warmly for your participation in this evaluation. The effort you made in submitting the data to TUHAT-RIS is gratefully acknowledged by the University. We wish that you find this panel feedback useful in many ways. The bibliometric profiles may open a new view on your publication forums and provide a perspective for discussion on your choice of forums. We especially hope that this evaluation report will help you in setting the future goals of your research.

Johanna Björkroth  
Vice-Rector  
Chair of the Steering Group of the Evaluation

#### **Steering Group of the evaluation**

Steering group, nominated by the Rector of the University, was responsible for the planning of the evaluation and its implementation having altogether 22 meetings between February 2010 and March 2012.

#### **Chair**

Vice-Rector, professor **Johanna Björkroth**

#### **Vice-Chair**

Professor **Marja Airaksinen**

Chief Information Specialist, Dr **Maria Forsman**

Professor **Arto Mustajoki**

University Lecturer, Dr **Kirsi Pyhälä**

Director of Strategic Planning and Development, Dr **Ossi Tuomi**

Doctoral candidate, MSocSc **Jussi Vauhkonen**



# Panel members

## **CHAIR**

### **Professor Ary A. Hoffman**

Ecological genetics, evolutionary biology,  
biodiversity conservation, zoology  
University of Melbourne, Australia

## **VICE-CHAIR**

### **Professor Barbara Koch**

Forest Sciences, remote sensing  
University of Freiburg, Germany

### **Professor Per-Anders Hansson**

Agricultural engineering, modeling, life cycle  
analysis, bioenergy  
Swedish University of Agricultural Sciences

### **Professor Danny Huylebroeck**

Developmental biology  
Katholieke Universiteit Leuven, Belgium

### **Professor Jonathan King**

Virus assembly, protein folding  
Massachusetts Institute of Technology MIT, USA

### **Professor Hannu J.T. Korhonen**

Functional foods, dairy technology, milk hygiene  
MTT Agrifood Research Finland

### **Professor Kristiina Kruus**

Microbiological biotechnology, microbiological  
enzymes, applied microbiology  
VTT Technical Research Centre of Finland

### **Professor Joakim Lundeberg**

Biochemistry, biotechnology, sequencing, genomics  
KTH Royal Institute of Technology, Sweden

### **Professor Dominiek Maes**

Veterinary medicine  
Ghent University, Belgium

### **Professor Olli Saastamoinen**

Forest economics and policy  
University of Eastern Finland

### **Professor Kai Simons**

Biochemistry, molecular biology, cell biology  
Max-Planck-Institute of Molecular Cell Biology and  
Genetics, Germany

The panel, independently, evaluated all the submitted material and was responsible for the feedback of the RC-specific reports. The panel members were asked to confirm whether they had any conflict of interests with the RCs. If this was the case, the panel members disqualified themselves in discussion and report writing.

Added expertise to the evaluation was contributed by the members from the other panels and by one evaluator outside the panels.

**External Expert**  
**Professor Anders Linde**  
Oral biochemi  
Faculty of Odontology  
Göteborg University  
Sweden

#### **Experts from the Other Panels**

**Professor Caitlin Buck**, from the Panel of Natural Sciences  
**Professor Ritske Huismans**, from the Panel of Natural Sciences  
**Professor Johanna Ivaska**, from the Panel of Medicine, biomedicine and health sciences  
**Professor Lea Kauppi**, from the Panel of Natural Sciences  
**Professor Holger Stark**, from the Panel of Natural Sciences  
**Professor Peter York**, from the Panel of Medicine, biomedicine and health sciences

#### **EVALUATION OFFICE**

**Dr Seppo Saari, Doc.**, Senior Adviser in Evaluation, was responsible for the entire evaluation, its planning and implementation and acted as an Editor-in-chief of the reports.

**Dr Eeva Sievi, Doc.**, Adviser, was responsible for the registration and evaluation material compilations for the panellists. She worked in the evaluation office from August 2010 to July 2011.

**MSocSc Paula Ranne**, Planning Officer, was responsible for organising the panel meetings and all the other practical issues like agreements and fees and editing a part the RC-specific reports. She worked in the evaluation office from March 2011 to January 2012.

**Mr Antti Mollanen**, Project Secretary, was responsible for editing the reports. He worked in the evaluation office from January 2012 to April 2012.

#### **TUHAT OFFICE**

##### **Provision of the publication and other scientific activity data**

**Mrs Aija Kaitera**, Project Manager of TUHAT-RIS served the project ex officio providing the evaluation project with the updated information from TUHAT-RIS. The TUHAT office assisted in mapping the publications with CWTS/University of Leiden.

**MA Liisa Ekebom**, Assisting Officer, served in TUHAT-RIS updating the publications for the evaluation. She also assisted the UH/Library analyses.

**BA Liisa Jäppinen**, Assisting Officer, served in TUHAT-RIS updating the publications for the evaluation.

#### **HELSINKI UNIVERSITY LIBRARY**

##### **Provision of the publication analyses**

**Dr Maria Forsman**, Chief Information Specialist in the Helsinki University Library, managed with her 10 colleagues the bibliometric analyses in humanities, social sciences and in other fields of sciences where CWTS analyses were not applicable.

## **Acronyms and abbreviations applied in the report**

### **External competitive funding**

AF – Academy of Finland  
TEKES - Finnish Funding Agency for Technology and Innovation  
EU - European Union  
ERC - European Research Council  
International and national foundations  
FP7/6 etc. /Framework Programmes/Funding of European Commission

### **Evaluation marks**

Outstanding (5)  
Excellent (4)  
Very Good (3)  
Good (2)  
Sufficient (1)

### **Abbreviations of Bibliometric Indicators**

P - Number of publications  
TCS – Total number of citations  
MCS - Number of citations per publication, excluding self-citations  
PNC - Percentage of uncited publications  
MNCS - Field-normalized number of citations per publication  
MNJS - Field-normalized average journal impact  
THCP10 - Field-normalized proportion highly cited publications (top 10%)  
INT\_COV - Internal coverage, the average amount of references covered by the WoS  
WoS – Thomson Reuters Web of Science Databases

### **Participation category**

Category 1. The research of the participating community represents the international cutting edge in its field.  
Category 2. The research of the participating community is of high quality, but the community in its present composition has yet to achieve strong international recognition or a clear break-through.  
Category 3. The research of the participating community is distinct from mainstream research, and the special features of the research tradition in the field must be considered in the evaluation.  
Category 4. The research of the participating community represents an innovative opening.  
Category 5. The research of the participating community has a highly significant societal impact.

### **Research focus areas of the University of Helsinki**

Focus area 1: The basic structure, materials and natural resources of the physical world  
Focus area 2: The basic structure of life  
Focus area 3: The changing environment – clean water  
Focus area 4: The thinking and learning human being  
Focus area 5: Welfare and safety  
Focus area 6: Clinical research  
Focus area 7: Precise reasoning  
Focus area 8: Language and culture  
Focus area 9: Social justice  
Focus area 10: Globalisation and social change



# 1 Introduction to the Evaluation

## 1.1 RC-specific evaluation reports

The participants in the evaluation of research and doctoral training were Researcher Communities (hereafter referred to as the RC). The RC refers to the group of researchers who registered together in the evaluation of their research and doctoral training. Preconditions in forming RCs were stated in the Guidelines for the Participating Researcher Communities. The RCs defined themselves whether their compositions should be considered well-established or new.

It is essential to emphasise that the evaluation combines both meta-evaluation<sup>1</sup> and traditional research assessment exercise and its focus is both on the research outcomes and procedures associated with research and doctoral training. The approach to the evaluation is enhancement-led where self-evaluation constituted the main information. The answers to the evaluation questions formed together with the information of publications and other scientific activities an entity that was to be reviewed as a whole.

The present evaluation recognizes and justifies the diversity of research practices and publication traditions. Traditional Research Assessment Exercises do not necessarily value high quality research with low volumes or research distinct from mainstream research. It is challenging to expose the diversity of research to fair comparison. To understand the essence of different research practices and to do justice to their diversity was one of the main challenges of the present evaluation method. Understanding the divergent starting points of the RCs demanded sensitivity from the evaluators.

## 1.2 Aims and objectives in the evaluation

The aims of the evaluation are as follows:

- to improve the level of research and doctoral training at the University of Helsinki and to raise their international profile in accordance with the University's strategic policies. The improvement of doctoral training should be compared to the University's policy.<sup>2</sup>
- to enhance the research conducted at the University by taking into account the diversity, originality, multidisciplinary nature, success and field-specificity,
- to recognize the conditions and prerequisites under which excellent, original and high-impact research is carried out,
- to offer the academic community the opportunity to receive topical and versatile international peer feedback,
- to better recognize the University's research potential.
- to exploit the University's TUHAT research information system to enable transparency of publishing activities and in the production of reliable, comparable data.

## 1.3 Evaluation method

The evaluation can be considered as an enhancement-led evaluation. Instead of ranking, the main aim is to provide useful information for the enhancement of research and doctoral training of the participating RCs. The comparison should take into account each field of science and acknowledge their special character.

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<sup>1</sup> The panellists did not read research reports or abstracts but instead, they evaluated answers to the evaluation questions, tables and compilations of publications, other scientific activities, bibliometrics or comparable analyses.

<sup>2</sup> [Policies on doctoral degrees and other postgraduate degrees at the University of Helsinki.](#)

The comparison produced information about the present status and factors that have lead to success. Also challenges in the operations and outcomes were recognized.

The evaluation approach has been designed to recognize better the significance and specific nature of researcher communities and research areas in the multidisciplinary top-level university. Furthermore, one of the aims of the evaluation is to bring to light those evaluation aspects that differ from the prevalent ones. Thus the views of various fields of research can be described and research arising from various starting points understood better. The doctoral training is integrated into the evaluation as a natural component related to research. Operational processes of doctoral training are being examined in the evaluation.

**Five stages of the evaluation method were:**

1. Registration – Stage 1
2. Self-evaluation – Stage 2
3. TUHAT<sup>3</sup> compilations on publications and other scientific activities<sup>4</sup>
4. External evaluation
5. Public reporting

## **1.4 Implementation of the external evaluation**

### **Five Evaluation Panels**

Five evaluation panels consisted of independent, renowned and highly respected experts. The main domains of the panels are:

1. biological, agricultural and veterinary sciences
2. medicine, biomedicine and health sciences
3. natural sciences
4. humanities
5. social sciences

The University invited 10 renowned scientists to act as chairs or vice-chairs of the five panels based on the suggestions of faculties and independent institutes. Besides leading the work of the panel, an additional role of the chairs was to discuss with other panel chairs in order to adopt a broadly similar approach. The panel chairs and vice-chairs had a pre-meeting on 27 May 2011 in Amsterdam.

The panel compositions were nominated by the Rector of the University 27 April 2011. The participating RCs suggested the panel members. The total number of panel members was 50. The reason for a smaller number of panellists as compared to the previous evaluations was the character of the evaluation as a meta-evaluation. The panellists did not read research reports or abstracts but instead, they evaluated answers to the evaluation questions, tables and compilations of publications, other scientific activities, bibliometrics and comparable analyses.

The panel meetings were held in Helsinki:

- On 11–13 September 2011: (1) biological, agricultural and veterinary sciences, (2) medicine, biomedicine and health sciences and (3) natural sciences.
- On 18–20 September 2011: (4) humanities and (5) social sciences.

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<sup>3</sup> TUHAT (acronym) of Research Information System (RIS) of the University of Helsinki

<sup>4</sup> Supervision of thesis, prizes and awards, editorial work and peer reviews, participation in committees, boards and networks and public appearances.

## 1.5 Evaluation material

The main material in the evaluation was the RCs' self-evaluations that were qualitative in character and allowed the RCs to choose what was important to mention or emphasise and what was left unmentioned.

The present evaluation is exceptional at least in the Finnish context because it is based on both the evaluation documentation (self-evaluation questions, publications and other scientific activities) and the bibliometric reports. All documents were delivered to the panellists for examination.

Traditional bibliometrics can be reasonably done mainly in medicine, biosciences and natural sciences when using the Web of Science database, for example. Bibliometrics, provided by CWTS/The Centre for Science and Technology Studies, University of Leiden, cover only the publications that include WoS identification in the TUHAT-RIS.

Traditional bibliometrics are seldom relevant in humanities and social sciences because the international comparable databases do not store every type of high quality research publications, such as books and monographs and scientific journals in other languages than English. The Helsinki University Library has done analysis to the RCs, if their publications were not well represented in the Web of Science databases (RCs should have at least 50 publications and internal coverage of publications more than 40%) – it meant 58 RCs. The bibliometric material for the evaluation panels was available in June 2011. The RC-specific bibliometric reports are attached at the end of each report.

The panels were provided with the evaluation material and all other necessary background information, such as the basic information about the University of Helsinki and the Finnish higher education system.

### Evaluation material

1. Registration documents of the RCs for the background information
2. Self evaluation material – answers to the evaluation questions
3. Publications and other scientific activities based on the TUHAT RIS:
  - 3.1. statistics of publications
  - 3.2. list of publications
  - 3.3. statistics of other scientific activities
  - 3.4. list of other scientific activities
4. Bibliometrics and comparable analyses:
  - 4.1. Analyses of publications based on the verification of TUHAT-RIS publications with the Web of Science publications (CWTS/University of Leiden)
  - 4.2. Publication statistics analysed by the Helsinki University Library - mainly for humanities and social sciences
5. University level survey on doctoral training (August 2011)
6. University level analysis on publications 2005–2010 (August 2011) provided by CWTS/University of Leiden

### Background material

#### University of Helsinki

- [Basic information about the University of the Helsinki](#)
- [The structure of doctoral training at the University of Helsinki](#)
- Previous evaluations of research at the University of Helsinki – links to the reports: [1998](#) and [2005](#)

#### The Finnish Universities/Research Institutes

- [Finnish University system](#)
- [Evaluation of the Finnish National Innovation System](#)
- [The State and Quality of Scientific Research in Finland. Publication of the Academy of Finland 9/09.](#)

The evaluation panels were provided also with other relevant material on request before the meetings in Helsinki.

## 1.6 Evaluation questions and material

The participating RCs answered the following evaluation questions which are presented according to the evaluation form. In addition, TUHAT RIS was used to provide the **additional material** as explained. For giving the feedback to the RCs, the panellists received the evaluation feedback form constructed in line with the evaluation questions:

### 1. Focus and quality of the RC's research

- Description of
  - the RC's research focus.
  - the quality of the RC's research (incl. key research questions and results)
  - the scientific significance of the RC's research in the research field(s)
- Identification of the ways to strengthen the focus and improve the quality of the RC's research

The additional material: TUHAT compilation of the RC's publications, analysis of the RC's publications data (provided by University of Leiden and the Helsinki University Library)

A written feedback from the aspects of: scientific quality, scientific significance, societal impact, innovativeness

- Strengths
- Areas of development
- Other remarks
- Recommendations

Numeric evaluation: OUTSTANDING (5), EXCELLENT (4), VERY GOOD (3), GOOD (2), SUFFICIENT (1)

### 2. Practises and quality of doctoral training

- Organising of the doctoral training in the RC. Description of the RC's principles for:
  - recruitment and selection of doctoral candidates
  - supervision of doctoral candidates
  - collaboration with faculties, departments/institutes, and potential graduate schools/doctoral programmes
  - good practises and quality assurance in doctoral training
  - assuring of good career perspectives for the doctoral candidates/fresh doctorates
- Identification of the RC's strengths and challenges related to the practises and quality of doctoral training, and the actions planned for their development.

The additional material: TUHAT compilation of the RC's other scientific activities/supervision of doctoral dissertations

A written feedback from the aspects of: processes and good practices related to leadership and management

- Strengths
- Areas of development
- Other remarks
- Recommendations

Numeric evaluation: OUTSTANDING (5), EXCELLENT (4), VERY GOOD (3), GOOD (2), SUFFICIENT (1)

### 3. The societal impact of research and doctoral training

- Description on how the RC interacts with and contributes to the society (collaboration with public, private and/or 3rd sector).
- Identification of the ways to strengthen the societal impact of the RC's research and doctoral training.

The additional material: TUHAT compilation of the RC's other scientific activities.

A written feedback from the aspects of: societal impact, national and international collaboration, innovativeness

- Strengths
- Areas of development
- Other remarks
- Recommendations

Numeric evaluation: OUTSTANDING (5), EXCELLENT (4), VERY GOOD (3), GOOD (2), SUFFICIENT (1)



#### **4. International and national (incl. intersectoral) research collaboration and researcher mobility**

- Description of
  - the RC's research collaborations and joint doctoral training activities
  - how the RC has promoted researcher mobility
- Identification of the RC's strengths and challenges related to research collaboration and researcher mobility, and the actions planned for their development.

A written feedback from the aspects of: scientific quality, national and international collaboration

- Strengths
- Areas of development
- Other remarks
- Recommendations

Numeric evaluation: OUTSTANDING (5), EXCELLENT (4), VERY GOOD (3), GOOD (2), SUFFICIENT (1)

#### **5. Operational conditions**

- Description of the operational conditions in the RC's research environment (e.g. research infrastructure, balance between research and teaching duties).
- Identification of the RC's strengths and challenges related to operational conditions, and the actions planned for their development.

A written feedback from the aspects of: processes and good practices related to leadership and management

- Strengths
- Areas of development
- Other remarks
- Recommendations

#### **6. Leadership and management in the researcher community**

- Description of
  - the execution and processes of leadership in the RC
  - how the management-related responsibilities and roles are distributed in the RC
  - how the leadership- and management-related processes support
    - high quality research
    - collaboration between principal investigators and other researchers in the RC
    - the RC's research focus
    - strengthening of the RC's know-how
- Identification of the RC's strengths and challenges related to leadership and management, and the actions planned for developing the processes

#### **7. External competitive funding of the RC**

- The RCs were asked to provide information of such external competitive funding, where:
  - the funding decisions have been made during 1.1.2005-31.12.2010, and
  - the administrator of the funding is/has been the University of Helsinki
- On the e-form the RCs were asked to provide:
  - 1) The relevant funding source(s) from a given list (Academy of Finland/Research Council, TEKES/The Finnish Funding Agency for Technology and Innovation, EU, ERC, foundations, other national funding organisations, other international funding organisations), and
  - 2) The total sum of funding which the organisation in question had decided to allocate to the RCs members during 1.1.2005-31.12.2010.

Competitive funding reported in the text is also to be considered when evaluating this point.

A written feedback from the aspects of: scientific quality, scientific significance, societal impact, innovativeness, future significance

- Strengths
- Areas of development
- Other remarks
- Recommendations

#### **8. The RC's strategic action plan for 2011-2013**

- RC's description of their future perspectives in relation to research and doctoral training.

A written feedback from the aspects of: scientific quality, scientific significance, societal impact, processes and good practices related to leadership and management, national and international collaboration, innovativeness, future significance

- Strengths
- Areas of development

- Other remarks
- Recommendations

## 9. Evaluation of the category of the RC in the context of entity of the evaluation material (1-8)

The RC's fitness to the chosen participation category

A written feedback evaluating the RC's fitness to the chosen participation category

- Strengths
- Areas of development
- Other remarks
- Recommendations

Numeric evaluation: OUTSTANDING (5), EXCELLENT (4), VERY GOOD (3), GOOD (2), SUFFICIENT (1)

## 10. Short description of how the RC members contributed the compilation of the stage 2 material

Comments on the compilation of evaluation material

## 11. How the UH's focus areas are presented in the RC's research?

Comments if applicable

## 12. RC-specific main recommendations based on the previous questions 1-11

## 13. RC-specific conclusions

# 1.7 Evaluation criteria

The panellists were expected to give evaluative and analytical feedback to each evaluation question according to their aspects in order to describe and justify the quality of the submitted material. In addition, the evaluation feedback was asked to be pointed out the level of the performance according to the following classifications:

- outstanding (5)
- excellent (4)
- very good (3)
- good (2)
- sufficient (1)

Evaluation according to the criteria was to be made with thorough consideration of the entire evaluation material of the RC in question. Finally, in questions 1-4 and 9, the panellists were expected to classify their written feedback into one of the provided levels (the levels included respective descriptions, 'criteria'). Some panels used decimals in marks. The descriptive level was interpreted according to the integers and not rounding up the decimals by the editors.

## Description of criteria levels

### Question 1 – FOCUS AND QUALITY OF THE RC'S RESEARCH

#### Classification: Criteria (level of procedures and results)

#### Outstanding quality of procedures and results (5)

Outstandingly strong research, also from international perspective. Attracts great international interest with a wide impact, including publications in leading journals and/or monographs published by leading international publishing houses. The research has world leading qualities. The research focus, key research questions scientific significance, societal impact and innovativeness are of outstanding quality.

*In cases where the research is of a national character and, in the judgement of the evaluators, should remain so, the concepts of "international attention" or "international impact" etc. in the grading criteria above may be replaced by "international comparability".*

Operations and procedures are of outstanding quality, transparent and shared in the community. The improvement of research and other efforts are documented and operations and practices are in alignment with the documentation. The ambition to develop the community together is of outstanding quality.

#### **Excellent quality of procedures and results (4)**

Research of excellent quality. Typically published with great impact, also internationally. Without doubt, the research has a leading position in its field in Finland.

Operations and procedures are of excellent quality, transparent and shared in the community. The improvement of research and other efforts are documented and operations and practices are to large extent in alignment with the documentation. The ambition to develop the community together is of excellent quality.

#### **Very good quality of procedures and results (3)**

The research is of such very good quality that it attracts wide national and international attention.

Operations and procedures are of very good quality, transparent and shared in the community. The improvement of research and other efforts are documented and operations and practices are to large extent in alignment with the documentation. The ambition to develop the community together is of very good quality.

#### **Good quality of procedures and results (2)**

Good research attracting mainly national attention but possessing international potential, extraordinarily high relevance may motivate good research.

Operations and procedures are of good quality, shared occasionally in the community. The improvement of research and other efforts are occasionally documented and operations and practices are to large extent in alignment with the documentation. The ambition to develop the community together is of good quality.

#### **Sufficient quality of procedures and results (1)**

In some cases the research is insufficient and reports do not gain wide circulation or do not have national or international attention. Research activities should be revised.

Operations and procedures are of sufficient quality, shared occasionally in the community. The improvement of research and other efforts are occasionally documented and operations and practices are to some extent in alignment with the documentation. The ambition to develop the community together is of sufficient quality.

### **Question 2 – DOCTORAL TRAINING**

### **Question 3 – SOCIETAL IMPACT**

### **Question 4 – COLLABORATION**

#### **Classification: Criteria (level of procedures and results)**

#### **Outstanding quality of procedures and results (5)**

Procedures are of outstanding quality, transparent and shared in the community. The practices and quality of doctoral training/societal impact/international and national collaboration/leadership and management are documented and operations and practices are in alignment with the documentation. The ambition to develop the community together is of outstanding quality. The procedures and results are regularly evaluated and the feedback has an effect on the planning.

#### **Excellent quality of procedures and results (4)**

Procedures are of excellent quality, transparent and shared in the community. The practices and quality of doctoral training/societal impact/international and national collaboration/leadership and management are documented and operations and practices are to large extent in alignment with the documentation. The ambition to develop the community together is of excellent quality. The procedures and outcomes are evaluated and the feedback has an effect on the planning.

#### **Very good quality of procedures and results (3)**

Procedures are of very good quality, transparent and shared in the community. The practices and quality of doctoral training/societal impact/international and national collaboration/leadership and

management are documented and operations and practices are to large extent in alignment with the documentation. The ambition to develop the community together is of very good quality.

#### **Good quality of procedures and results (2)**

Procedures are of good quality, shared occasionally in the community. The practices and quality of doctoral training/societal impact/international and national collaboration/leadership and management are documented and operations and practices are to large extent in alignment with the documentation. The ambition to develop the community together is of good quality.

#### **Sufficient quality of procedures and results (1)**

Procedures are of sufficient quality, transparent and shared in the community. The practices and quality of doctoral training/societal impact/international and national collaboration/leadership and management are occasionally documented and operations and practices are to some extent in alignment with the documentation. The ambition to develop the community together is of sufficient quality.

### **Question 9 – CATEGORY**

Participation category – fitness for the category chosen

The choice and justification for the chosen category below should be reflected in the RC's responses to the evaluation questions 1–8.

1. *The research of the participating community represents the international cutting edge in its field.*
2. *The research of the participating community is of high quality, but the community in its present composition has yet to achieve strong international recognition or a clear break-through.*
3. *The research of the participating community is distinct from mainstream research, and the special features of the research tradition in the field must be considered in the evaluation.* The research is of high quality and has great significance and impact in its field. However, the generally used research evaluation methods do not necessarily shed sufficient light on the merits of the research.
4. *The research of the participating community represents an innovative opening.* A new opening can be an innovative combination of research fields, or it can be proven to have a special social, national or international demand or other significance. Even if the researcher community in its present composition has yet to obtain proof of international success, its members can produce convincing evidence of the high level of their previous research.
5. *The research of the participating community has a highly significant societal impact.* The participating researcher community is able to justify the high social significance of its research. The research may relate to national legislation, media visibility or participation in social debate, or other activities promoting social development and human welfare. In addition to having societal impact, the research must be of a high standard.

#### **An example of outstanding fitness for category choice (5) <sup>5</sup>**

The RC's representation and argumentation for the chosen category were convincing. The RC recognized its real capacity and apparent outcomes in a wider context to the research communities. The specific character of the RC was well-recognized and well stated in the responses. The RC fitted optimally for the category.

- Outstanding (5)
- Excellent (4)
- Very good (3)
- Good (2)
- Sufficient (1)

The above-mentioned definition of outstanding was only an example in order to assist the panellists in the positioning of the classification. There was no exact definition for the category fitness.

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<sup>5</sup> The panels discussed the category fitness and made the final conclusions of the interpretation of it.

## 1.8 Timetable of the evaluation

The main timetable of the evaluation:

- |  |                       |
|--|-----------------------|
| 1. Registration                            | November 2010         |
| 2. Submission of self-evaluation materials | January–February 2011 |
| 3. External peer review                    | May–September 2011    |
| 4. Published reports                       | March–April 2012      |
| - University level public report           |                       |
| - RC specific reports                      |                       |

The entire evaluation was implemented during the university's strategy period 2010–2012. The preliminary results were available for the planning of the following strategy period in late autumn 2011. The evaluation reports will be published in March/April 2012. More detailed time schedule is published in the University report.

## 1.9 Evaluation feedback – consensus of the entire panel

The panellists evaluated all the RC-specific material before the meetings in Helsinki and mailed the draft reports to the evaluation office. The latest interim versions were on-line available to all the panellists on the Wiki-sites. In September 2011, in Helsinki the panels discussed the material, revised the first draft reports and decided the final numeric evaluation. After the meetings in Helsinki, the panels continued working and finalised the reports before the end of November 2011. The final RC-specific reports are the consensus of the entire panel.

The evaluation reports were written by the panels independently. During the editing process, the evaluation office requested some clarifications from the panels when necessary. The tone and style in the reports were not harmonized in the editing process. All the reports follow the original texts written by the panels as far as it was possible.

The original evaluation material of the RCs, provided for the panellists is attached at the end of the report. It is essential to notice that the exported lists of publications and other scientific activities depend how the data was stored in the TUHAT-RIS by the RCs.



## 2 Evaluation feedback

### 2.1 Focus and quality of the RC's research

- *Description of*
    - *the RC's research focus*
    - *the quality of the RC's research (incl. key research questions and results)*
    - *the scientific significance of the RC's research in the research field(s)*
  - *Identification of the ways to strengthen the focus and improve the quality of the RC's research*
- ASPECTS:** *Scientific quality, scientific significance, societal impact, innovativeness*

The Avian Research Community (ARC) represents a very strong and competitive group with an excellent publication record in the top specialist evolutionary journals and also some papers in the general literature. The group is well regarded through their long term bird population studies and there are also strong connections to the conservation and management community.

Although individual members are well known scientists, the RC points to lack of general recognition of the group as an entity, unlike other units at Helsinki such as the metapopulation group. The evaluation material points to the recent inclusion of the monitoring group, even though this group was until recently focused on more applied and evaluation-based outcomes.

The publication analysis points to papers in the ecology area being overall of high impact. This is reassuring although the output is somewhat less than for some top groups in Helsinki and given the number of researchers involved in the group. There seems to be substantial unevenness in publication success across the group.

**Numeric evaluation: 3 (Very good)**

### 2.2 Practises and quality of doctoral training

- *Organising of the doctoral training in the RC. Description of the RC's principles for:*
  - *recruitment and selection of doctoral candidates*
  - *supervision of doctoral candidates*
  - *collaboration with faculties, departments/institutes, and potential graduate schools/doctoral programmes*
  - *good practises and quality assurance in doctoral training*
  - *assuring of good career perspectives for the doctoral candidates/fresh doctorates*
- *Identification of the RC's strengths and challenges related to the practises and quality of doctoral training, and the actions planned for their development.*
- *Additional material: TUHAT compilation of the RC's other scientific activities/supervision of doctoral dissertations*

**ASPECTS:** *Processes and good practices related to leadership and management*

The RC has managed to attract a variety of funded postgraduate students although the size of the PhD cohort appears quite modest by international standards.

There was no mention of postdoctoral involvement in student supervision even though this can be beneficial to the students and also provide training. There was also no mention of standard practices for the group in terms of frequency of group meetings, requirements for talks and so on, although such best practices are used by other groups and thus it may be useful to consider these.

Although it is stated that students have continued in science and also that recruitment is broad, no figures are presented about students' destinations and countries of recruitment. This type of information can help track the success of the PhD program and it is used in other RCs.

The submission mentions the importance of good success in getting papers in good journals, but no figures or definitions are provided in support of the “good” evaluation in this context.

**Numeric evaluation: 1 (Sufficient)**

## 2.3 The societal impact of research and doctoral training

- *Description on how the RC interacts with and contributes to the society (collaboration with public, private and/or 3rd sector).*
- *Identification of the ways to strengthen the societal impact of the RC's research and doctoral training.*
- *Additional material: TUHAT compilation of the RC's other scientific activities.*

**ASPECTS:** Societal impact, national and international collaboration, innovativeness

Interactions with the broader community are quite strong for this RC, given the involvement of the monitoring team in a broader government context. Data collected by the team is used in evaluations of endangerment status. The panel did wonder how the team was regarded by the Ministry of Environment: Is it performing its function well? Is there room for improvement? And conversely; did the monitoring team feel that they were having an adequate impact on policy and biodiversity conservation practices generally?

The evaluation material highlights a strong record in public engagement through the media. How is the effectiveness of this involvement assessed? What training is provided?

The information given is a bit misleading compared to many other groups, because in the case of ARC you get a very long list about one yearbook of ‘Linnut’ (*birds*) consisting of numerous one page articles. The same is through for some radio programmes.

There is a suggestion about regular press releases, the panel wonders how this process might be facilitated and funded. The panel also notes that contact with decision makers is “largely lacking”, which is worrying given the applied nature of some of the work. The panel also assumes, as in other countries, that there is local scientific/academic representation on committees, as well as on advisory panels where there is an impact on biodiversity policy.

**Numeric evaluation: 2 (Good)**

## 2.4 International and national (incl. intersectoral) research collaboration and researcher mobility

- *Description of*
  - *the RC's research collaborations and joint doctoral training activities*
  - *how the RC has promoted researcher mobility*
- *Identification of the RC's strengths and challenges related to research collaboration and researcher mobility, and the actions planned for their development.*

**ASPECTS:** Scientific quality, national and international collaboration

As outlined in the evaluation material, the group has published papers with a number of international collaborators and international connections have also been established through PhD projects and lab exchanges.

It is not clear what opportunities exist for students to engage in international activities and the funding available. Such processes are formalized in some other RCs. There are strong connections to national bodies around wildlife and conservation although no indication of involvement in international activities in this area.

The evaluation material mentions that PI mobility “could be improved” and it would be useful to explore some targets and investigate the nature of the activities that could be the focus of improvement.

**Numeric evaluation: 2 (Good)**



## 2.5 Operational conditions

- *Description of the operational conditions in the RC's research environment (e.g. research infrastructure, balance between research and teaching duties).*
- *Identification of the RC's strengths and challenges related to operational conditions, and the actions planned for their development.*

*ASPECTS: Processes and good practices related to leadership and management*

The group has access to basic office and computing facilities and some other infrastructure. However, the evaluation material highlights that support is limited, and that this represents a challenge given that external funding can only support targeted funded activities. There are comments around long term ecological research which is always difficult to support – this is a common problem around the world, with much of the monitoring work typically undertaken on a volunteer basis.

The RC is faced with different existing cultures at the two locations spanning the RC. This seems like a challenge given the lack of support for research at the Finnish Museum of Natural History, and instead a focus on reporting is mentioned. However, this might also represent an opportunity where the data collected for reporting purposes can also be used within a research context through collaborations with academic researchers.

Ideally it seems that the RC needs to gain some support for basic facilities to coordinate the group and promote research. The panel wonders if this is possible through some integrated funding initiatives or perhaps a fee for service activities. The panel would be interested in finding out more about the change in culture at the museums and how this might provide additional research support.

The data collected for reporting purposes is available for researchers as well. The panel was also wondering why the RC mentions that they are not using the field stations of the university. They certainly could do that if they wanted to.

## 2.6 Leadership and management in the researcher community

- *Description of*
  - *the execution and processes of leadership in the RC*
  - *how the management-related responsibilities and roles are distributed in the RC*
  - *how the leadership- and management-related processes support*
    - *high quality research*
    - *collaboration between principal investigators and other researchers in the RC*
    - *the RC's research focus*
    - *strengthening of the RC's know-how*
- *Identification of the RC's strengths and challenges related to leadership and management, and the actions planned for developing the processes*

*ASPECTS: Processes and good practices related to leadership and management*

The RC has a flat structure unlike many of the other RCs where there is a clear leader. This has the advantage that everyone can contribute in setting research directions on an equal footing. However, the danger is that the RC might then suffer from a fragmented vision and this can impact funding initiatives and cohesion of the student body.

The panel would certainly encourage more interaction between units but it is hard to see how this could be facilitated without some funding for visitors, joint seminars and other activities to promote exchange. We think that some of the best interactions can develop through joint student supervision and perhaps this could be facilitated, given that currently students tend to have only one main supervisor.

There is an indication in the evaluation material that greater use might be made of the monitoring data, and the panel wonders if there is a possibility of lodging this somewhere to provide joint access by the group and also others, although this may already be the case.

The panel wonders if the students and postdocs feel like they are part of the group at any time. The group should really invest in developing ARC into a real research community instead of a collection of individuals.

## 2.7 External competitive funding of the RC

- *The RCs were asked to provide information of such external competitive funding, where:*
  - *the funding decisions have been made during 1.1.2005–31.12.2010, and*
  - *the administrator of the funding is/has been the University of Helsinki*
- *On the e-form the RCs were asked to provide:*
  - 1) *The relevant funding source(s) from a given list (Academy of Finland/Research Council, TEKES/The Finnish Funding Agency for Technology and Innovation, EU, ERC, foundations, other national funding organisations, other international funding organizations), and*
  - 2) *The total sum of funding which the organisation in question had decided to allocate to the RCs members during 1.1.2005–31.12.2010.*

*Competitive funding reported in the text is also to be considered when evaluating this point.*

*ASPECTS: Scientific quality, scientific significance, societal impact, innovativeness and future significance*

The group has had success in obtaining external funding, mostly through the Academy of Finland and to a lesser extent from other agencies.

The panel wonders if there is an opportunity to expand the funding base. For instance, other groups have been relatively more successful in the EU context.

Also, is there a target for the group? Is the group seeking a higher level of funding (particularly to support integrated activities across the group)?

## 2.8 The RC's strategic action plan for 2011–2013

- *RC's description of their future perspectives in relation to research and doctoral training.*

*ASPECTS: Scientific quality, scientific significance, societal Impact, processes and good practices related to leadership and management, national and international collaboration, innovativeness, future significance*

The group is interested in increasing its level of funding to support graduate research. This is commendable. What is the target student number and funding level?

There is not a lot of detail in this section about the steps that group members intend to take to improve mobility and expand funding.

## 2.9 Evaluation of the category of the RC in the context of entity of the evaluation material (1-8)

*The RC's fitness to the chosen participation category.*

*Category 1. The research of the participating community represents the international cutting edge in its field.*

The RC has certainly produced some high quality publications making this an appropriate category ('1. The research of the participating community represents the international cutting edge in its field') but the panel was disappointed by the quality of the submitted material. Clearly this RC contains excellent scientists but their activities are not well coordinated in this RC.

**Numeric evaluation: 3 (Very good)**

## **2.10 Short description of how the RC members contributed the compilation of the stage 2 material**

Brommer wrote the proposal, others commented on it.

## **2.11 How the UH's focus areas are presented in the RC's research**

*Focus area 3: The changing environment – clean water*

The RC fits in well within the focus area 'Changing Environment' of the UH.

## **2.12 RC-specific main recommendations**

The RC should seek to become better integrated and develop a strong vision around research and postgraduate training. Although the panel recognizes the undoubted excellence of the RC's participants, it was considered that the RC had so far failed to develop an integrated plan that would benefit its members. The RC might also consider engaging more directly with management agencies to influence management actions. The panel was positive about this RC but felt that it currently lacked development.

## **2.13 RC-specific conclusions**

This is a worthwhile RC that has the potential to develop into a strong research grouping but needs more development. There are some good ideas in the proposal but the vision is currently insufficiently cohesive or developed.

## **2.14 Preliminary findings in the Panel-specific feedback**

ARC consists of good scientists with high quality publication records in good journals but the RC has yet to develop into a cohesive group with a well-developed vision and set of objectives. The RC has a moderate group of postgraduate students but based on the information provided, it is hard to determine the success of this RC in research training. It is also not clear if the student body feels part of the RC. The RC interacts closely with some management groups but this could be developed further. The RC could make better use of field stations although infrastructure appears to be adequate. Some clear directions need to be developed for future growth and integration of this RC.

## **2.15 Preliminary findings in the University-level evaluation**

This RC illustrates some of the difficulties associated with the development process. There is little vision for the centre, which appears to be a collection of scientists without a clear common goal. This means that the students are unlikely to feel part of the RC.



# 3 Appendices

- A. Original evaluation material
  - a. Registration material – Stage 1
  - b. Answers to evaluation questions – Stage 2
  - c. List of publications
  - d. List of other scientific activities
- B. Bibliometric analyses
  - a. Analysis provided by CWTS/University of Leiden
  - b. Analysis provided by Helsinki University Library (66 RCs)



International evaluation of research and doctoral training  
at the University of Helsinki 2005-2010

RC-SPECIFIC MATERIAL FOR THE PEER REVIEW

NAME OF THE RESEARCHER COMMUNITY:

Avian Research Community (ARC)

LEADER OF THE RESEARCHER COMMUNITY:

Academy Research Fellow Jon Brommer, Department of Bioscience, Faculty of Biological and Environmental Sciences

RC-SPECIFIC MATERIAL FOR THE PEER REVIEW:

- Material submitted by the RC at stages 1 and 2 of the evaluation
  - STAGE 1 material: RC's registration form (incl. list of RC participants in an excel table)
  - STAGE 2 material: RC's answers to evaluation questions
- TUHAT compilations of the RC members' publications 1.1.2005-31.12.2010
- TUHAT compilations of the RC members' other scientific activities 1.1.2005-31.12.2010
- Web of Science(WoS)-based bibliometrics of the RC's publications data 1.1.2005-31.12.2010 (analysis carried out by CWTS, Leiden University)

*NB! Since Web of Science(WoS)-based bibliometrics does not provide representative results for most RCs representing humanities, social sciences and computer sciences, the publications of these RCs will be analyzed by the UH Library (results available by the end of June, 2011)*



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RC-SPECIFIC STAGE 1 MATERIAL (registration form)

1 RESPONSIBLE PERSON

Name: Brommer, Jon

E-mail:

Phone: 0505343360

Affiliation: Division of Ecology and Evolutionary Biology, Department of Bioscience

Street address: Viikinkaari 1

2 DESCRIPTION OF THE PARTICIPATING RESEARCHER COMMUNITY (RC)

Name of the participating RC (max. 30 characters): Avian Research Community

Acronym for the participating RC (max. 10 characters): ARC

Description of the operational basis in 2005-2010 (eg. research collaboration, joint doctoral training activities) on which the RC was formed (MAX. 2200 characters with spaces): The Avian Research Community (ARC) was established in 2010, and provides an overarching platform of two research groups: The Bird Ecology Unit (BEU, <http://www.helsinki.fi/bioscience/beu/>) and the Monitoring Team (MT, <http://www.luomus.fi/english/zoology/monitoring/>). These are two administratively and physically separate research groups (MT is situated in the Finnish Museum of Natural History in the city centre, and the BEU in the Faculty of Biological and Environmental Science, Viikki Science Park). Research conducted in ARC is broad and covers evolutionary ecology, (behavioural) ecology, conservation biology and population dynamics. Avian model systems are used for studying these questions. Our motivation to form ARC is driven by shared research interests as well as in providing a stimulating and synergistic training environment for our Ph.D. students. All ARC Ph.D. students fall under the Faculty of Biological and Environmental Sciences (Division of Ecology and Evolutionary Biology, Dept of Biosciences) and their PhD requirements adhere to the same standard.

3 SCIENTIFIC FIELDS OF THE RC

Main scientific field of the RC's research: biological, agricultural and veterinary sciences

RC's scientific subfield 1: Evolutionary Biology

RC's scientific subfield 2: Ecology

RC's scientific subfield 3: Ornithology

RC's scientific subfield 4: Genetics and Heredity

Other, if not in the list:



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RC-SPECIFIC STAGE 1 MATERIAL (registration form)

4 RC'S PARTICIPATION CATEGORY

Participation category: 1. Research of the participating community represents the international cutting edge in its field

Justification for the selected participation category (MAX. 2200 characters with spaces): ARC is dedicated to producing internationally recognised science. We publish primarily in international journals in the field of evolutionary biology, ecology and ornithology and make regular contributions to the top-ranking journals in these fields (e.g. American Naturalist, Evolution, Journal of Evolutionary Biology, Journal of Animal Ecology, Functional Ecology, Behavioral Ecology, Ecology Letters, Proceedings of the Royal Society B, Molecular Ecology) as well as the occasional publication in top-ranking general journals (e.g. Nature). The PhDs that are trained by ARC produce high-quality theses, and typically publish all their chapters in good journals. The expertise of the researchers of ARC is recognised nationally and internationally, as evident from several scientific duties including editorial duties, reviewing manuscripts for high-quality journals, reviewing of grant proposals and acting as evaluators for PhD theses and docentships. ARC has been competitive in obtaining external financing, mainly from the Academy of Finland and large national foundations, but has also attracted several post-doctoral researchers with their own external financing.

5 DESCRIPTION OF THE RC'S RESEARCH AND DOCTORAL TRAINING

Public description of the RC's research and doctoral training (MAX. 2200 characters with spaces): Research in the Avian Research Community (ARC) explores a variety of ecological and evolutionary issues using wild birds as model systems. In particular, ARC collects, stewards, and analyses long-term data to provide insights in evolutionary and population dynamics as well as conservation biology of natural populations. In one corner of its research spectrum, ARC's researchers carry out individual-level studies on birds (e.g. eagle owl, Ural owl, tawny owl, goshawk, pied flycatcher, blue tit). Here, the main aim is to obtain insights in evolutionary ecological questions. On the other side of its research interests, ARC stewards large-scale (national) population-level data of bird censuses in a variety of monitoring and mapping projects. The latter are used to assess population changes and conservation status of Finnish avifauna and explore ecological and evolutionary aspects related to changes in the environment.

Significance of the RC's research and doctoral training for the University of Helsinki (MAX. 2200 characters with spaces): The Avian Research Community has a strong publication record in the field of avian evolutionary ecology. The element of the ARC's research that is perhaps best acknowledged internationally resolves around the phenotypic plasticity of individuals that allows them to change in response to variable environments. Exploration of such plasticity is performed on various levels, on the individual-level (e.g. life-history adjustments, behavioural changes, maternal effects) on the genetic level (e.g. heritability of reaction norms) and on the population level (e.g. changes in phenology, spatial variation in reaction norms).

During the evaluation period, eight students received their PhD at the Faculty of Biological and Environmental Sciences (in addition, five students supervised by a member of ARC received their PhD at another institute, but these are left outside this evaluation). There are currently seven PhD students in various stages of their studies in the ARC attached to the Faculty of Biological and Environmental Sciences (and two ongoing PhD students at another institute). Most of the research that has been carried out by PhD





## INTERNATIONAL EVALUATION OF RESEARCH AND DOCTORAL TRAINING AT THE UNIVERSITY OF HELSINKI

### RC-SPECIFIC STAGE 1 MATERIAL (registration form)

students has been published in high-ranking international journals in the research field. Except for one, all PhD students have stayed in science after their PhD defence, illustrating ARC's capacity to train mature, independent researchers.

Keywords: bird, evolutionary ecology, behavioural ecology, life-history, ecological genetics, population biology, climate change

#### 6 QUALITY OF RC'S RESEARCH AND DOCTORAL TRAINING

Justified estimate of the quality of the RC's research and doctoral training at national and international level during 2005-2010 (MAX. 2200 characters with spaces): ARC has been competitive in obtaining funding and has managed to train a high number of PhDs as well as employ post-doctoral researchers and attract researchers with own external funding. ARC has an internationally recognised research profile in studying evolutionary questions using long-term individual-based data on wild populations. In particular, ARC is strong in working with birds of prey, although the "traditional" avian research on passerines is also well represented. ARC's success in the field of ecology and evolutionary biology is evident from its success in obtaining research financing as well as from the number of expert duties performed by its PIs in this field. Apart from this focal point, a certain diversity of research interests is guaranteed by the 'flat' structure of the research community, which consists of five "senior researcher-level" PIs (Brommer, Byholm, Laaksonen, Pietiäinen, Valkama) with their students and post-docs. The variety of our research is thematically linked by a focus on avian model systems. ARC consistently publishes good papers in high-impact journals in the field, and regularly manages to publish a paper in a top-ranking general journal. Apart from these plus points, we see three aspects on the minus side. First, although we enjoy the diversity of research interests, ARC is possibly not sufficiently specialised to allow it to be optimally renowned. Second, ARC is still to fully exploit the strength of the long-term monitoring data stewarded by the Monitoring Team. Third, ARC has not been able to regularly publish part of its work in top-impact ( $\geq 10$ ) general journals.

Comments on how the RC's scientific productivity and doctoral training should be evaluated (MAX. 2200 characters with spaces): The prime reason that ARC was formed only recently is that the Monitoring Team as a unit was formed during a re-organisation in 2009. New permanent staff (Toni Laaksonen) was employed in this unit, and it has become more research oriented because of this. During the evaluation period, the main duties of the (predecessor of the) Monitoring Team has centred on the collection and administration of the (substantial) national data on monitoring bird populations. The Finnish Museum of Natural History has primarily been concerned with fulfilling its obligation of reporting to the Ministry of Environment (which financially supports much of the monitoring programmes) and provided little support or motivation to produce high-ranking international science. Assessment could take into account that the Monitoring Team was not operating at full capacity prior to 2009.

We further believe that the perhaps atypical structure of the ARC (a relative flat structure with several senior researchers, but not centred on a "top" professor) must be weighed in when making the assessment.

Third, we wish to note that the stipulated exclusion of PhD candidates that are not associated with the U of H creates a potential bias in evaluation of ARC, because PIs in ARC have been (inter)nationally mobile during the evaluation period and have taken up supervisory roles also elsewhere. Especially Laaksonen (both also Brommer) have trained PhD candidates who received their PhDs at another research institute



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RC-SPECIFIC STAGE 1 MATERIAL (registration form)

during the time these respective PIs were associated with the U of H (five completed, and two ongoing). A proper assessment would take this “external” supervisory effort into account.

Publishing strategy: ARC aims to publish in internationally recognised, peer-reviewed journals that are top journals in our field, and our objective is to in addition to this publish at least one paper per year in a top-ranking general journal. PhD students are encouraged to take lead author positions (including correspondence authorship) and publish their thesis chapters as much as possible during the time it takes to complete their PhD.

## LIST OF RC MEMBERS

NAME OF THE RESEARCHER COMMUNITY:			Avian Research Community (ARC)		
RC-LEADER			J. Brommer		
CATEGORY			1		
	Last name	First name	PI-status (TUHAT, 29.11.2010)	Title of research and teaching personnel	Affiliation
1	Brommer	Jon	x	Senior Researcher	Faculty of Biological and Environmental Sciences, Department of Bioscience
2	Björklund	Heidi		Doctoral Candidate	Finnish Museum of Natural History
3	Burgas Riera	Daniel		Doctoral Candidate	Faculty of Biological and Environmental Sciences, Department of Bioscience
4	Byholm	Patrik	x	University Lecturer	Faculty of Biological and Environmental Sciences, Department of Bioscience
5	Calhim	Sara		Postdoctoral Researcher	Finnish Museum of Natural History
6	de Heij	Maaikje		Postdoctoral Researcher	Faculty of Biological and Environmental Sciences, Department of Bioscience
7	Karell	Patrik		Postdoctoral Researcher	Faculty of Biological and Environmental Sciences, Department of Bioscience
8	Kekkonen	Jaana		Doctoral Candidate	Faculty of Biological and Environmental Sciences, Department of Bioscience
9	Kluen	Edward		Doctoral Candidate	Faculty of Biological and Environmental Sciences, Department of Bioscience
10	Konttinen	Pekka		Doctoral Candidate	Faculty of Biological and Environmental Sciences, Department of Bioscience
11	Laaksonen	Toni	x	Research Director	Finnish Museum of Natural History
12	Lehikoinen	Aleksi		Senior Researcher	Faculty of Biological and Environmental Sciences, Department of Bioscience
13	Öst	Markus		University Lecturer	Faculty of Biological and Environmental Sciences, Department of Bioscience
14	Pakkala	Timo		Senior Researcher	Finnish Museum of Natural History
15	Pavon Jordan	Diego		Doctoral Candidate	Faculty of Biological and Environmental Sciences, Department of Bioscience
16	Penteriani	Vincenzo		Senior Researcher	Finnish Museum of Natural History
17	Pietiläinen	Hannu	x	University Lecturer	Faculty of Biological and Environmental Sciences, Department of Bioscience
18	Piha	Markus		Senior Researcher	Finnish Museum of Natural History
19	Pitala	Natalia		Doctoral Candidate	Faculty of Biological and Environmental Sciences, Department of Bioscience
20	Rainio	Kalle		Senior Researcher	Finnish Museum of Natural History
21	Santangeli	Andrea		Doctoral Candidate	Finnish Museum of Natural History
22	Schuett	Wiebke		Postdoctoral Researcher	Finnish Museum of Natural History
23	Sirkä	Saija		Doctoral Candidate	Faculty of Biological and Environmental Sciences, Department of Bioscience
24	Väisänen	Risto		Professor	Finnish Museum of Natural History
25	Valkama	Jari	x	Senior Researcher	Finnish Museum of Natural History
26	Velmala	William		Doctoral Candidate	Finnish Museum of Natural History
27	Vepsäläinen	Ville		Senior Researcher	Finnish Museum of Natural History



INTERNATIONAL EVALUATION OF RESEARCH AND DOCTORAL TRAINING AT THE  
UNIVERSITY OF HELSINKI

RC-SPECIFIC STAGE 2 MATERIAL

BACKGROUND INFORMATION

Name of the RC's responsible person: Brommer, Jon

E-mail of the RC's responsible person:

Name and acronym of the participating RC: Avian Research Community, ARC

The RC's research represents the following key focus area of UH: 3. Muuttuva ympäristö - puhdas vesi –  
The changing environment - clean water

Comments for selecting/not selecting the key focus area: ARC focuses on analyses of long-term data on avian populations, where the feedback with the environment is a key aspect for understanding the ecology and evolutionary biology of the systems.

1 FOCUS AND QUALITY OF RC'S RESEARCH (MAX. 8800 CHARACTERS WITH SPACES)

• **Description of the RC's research focus, the quality of the RC's research (incl. key research questions and results) and the scientific significance of the RC's research for the research field(s).**

\* The Avian Research Community (ARC) explores a variety of ecological and evolutionary issues using wild birds as model systems. In particular, ARC collects, stewards, and analyses long-term data to provide insights in evolutionary and population dynamics as well as conservation biology of natural populations. In one corner of its research spectrum, ARC's researchers carry out individual-level studies on birds (e.g. eagle owl, eider, Ural owl, tawny owl, goshawk, pied flycatcher, blue tit). Here, the main aim is to obtain insights in evolutionary ecological questions. On the other side of its research interests, ARC stewards large-scale (national) population-level data of bird censuses in a variety of monitoring and mapping projects. The latter are used to assess population changes and conservation status of Finnish avifauna and to explore ecological and evolutionary aspects related to changes in the environment.

\* Impact of ARC research has been largely in the fields of evolutionary ecology (behavioural ecology, ultimate and proximate causes of variation in life-history), ecological genetics, and spatial ecology.

\* Within the field of ornithology, ARC contributes top research on the ecology of birds of prey.

• **Ways to strengthen the focus and improve the quality of the RC's research.**

Because the MT stewards long-term monitoring data, the ARC is in a unique position to explore large spatial and temporal scale changes in a large number of avian species in response to changes in the environment. Such research is expected to have strong scientific and societal impact and be of importance for various applications such as wildlife management and species conservation.



INTERNATIONAL EVALUATION OF RESEARCH AND DOCTORAL TRAINING AT THE  
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RC-SPECIFIC STAGE 2 MATERIAL

2 PRACTISES AND QUALITY OF DOCTORAL TRAINING (MAX. 8800 CHARACTERS WITH SPACES)

- How is doctoral training organised in the RC? Description of the RC's principles for recruitment and selection of doctoral candidates, supervision of doctoral candidates, collaboration with faculties, departments/institutes, and potential graduate schools/doctoral programmes, good practises and quality assurance in doctoral training, and assuring good career perspectives for the doctoral candidates/fresh doctorates.

RECRUITMENT:

Recruitment of the PhD students is largely dictated by how they are funded. In the ARC, PhD student projects were funded as follows:

(1) Through project financing obtained by a PI (e.g. Academy of Finland or a large national foundation). These students have typically been selected through international advertisement, although in some cases the candidate was selected internally prior to applying for financing.

(2) Funded by a graduate school on the basis of the candidate's own application to the graduate school.

(3) Students have obtained personal funding from a national foundation. Recruitment in these cases is mostly local, although some students have also been attracted from abroad to follow this recruitment model. Typically, the student has prior experience in the research group (e.g. MSc thesis) and decides to continue his/her studies and files applications to private foundations for this purpose.

In all of the above, except when a person is recruited by advertisement, the respective PI is active in supporting the student in formulating research questions and plan.

SUPERVISION:

- PhD students are mainly supervised by one PI.
- Some of the PhD student research is a joined venture of two PIs, in which case the second PI in the ARC acts as a second supervisor.
- In recent years, the students are further supported by a support-group which typically includes one ARC member (in addition to the supervisor) and one or more external members and which meets annually to discuss the progress of the student.

COLLABORATION:

\* All students fall under a graduate school, in most cases the local (Helsinki-based) graduate school LUOVA. These graduate schools are active in organising courses and meetings and form an important part of the wider feedback network of the students.

\* In many projects, a collaborative element is present and students spend time working in the institute with whom the collaboration is going on.

PRACTISES:

- \* Internal control on the progress and problems in the students' project is assured through regular group meetings.
- \* The community of PhD students is active, with own seminar series and symposia.
- \* The graduate schools' coordinators and support groups provide the needed external perspective on these matters.



## INTERNATIONAL EVALUATION OF RESEARCH AND DOCTORAL TRAINING AT THE UNIVERSITY OF HELSINKI

### RC-SPECIFIC STAGE 2 MATERIAL

#### CAREER PERSPECTIVE:

- \* ARC encourages students to apply for own funding, which helps the student in getting prepared to fend for themselves as post-docs and independent researchers.
- \* Internal recruitment of ARC PhD students as post-docs has been frequent. A suitable project that is related to ongoing ones can be identified for those students that wish to continue their career in the ARC and these students are supported in pursuing this course.
- \* Most of the PhDs trained by ARC have continued their career in science, mostly within the ARC, but some also (inter)nationally.
- RC's strengths and challenges related to the practises and quality of doctoral training, and the actions planned for their development.

One strength is the choice of study systems and questions, since typically PhDs trained in ARC have had good success in getting their papers in good journals. The challenge for the coming years is to keep finding relevant new angles of research for talented people. Another challenge is to prepare individually tailored career plans that fit both a persons' aims and his/her capabilities.

#### 3 SOCIETAL IMPACT OF RESEARCH AND DOCTORAL TRAINING (MAX. 4400 CHARACTERS WITH SPACES)

- Description of how the RC interacts with and contributes to the society (collaboration with public, private and/or 3rd sector).
  - \* The ARC has substantial collaboration with the public sector, primarily with state research institutes (Fish and Wildlife Research Institute, Finnish Environmental Institute). This is strengthened via the participation of these research institutes in the LUOVA graduate school.
  - \* The Monitoring Team completes important expert work falling under the Ministry of Environment, regarding the location and status of national bird populations which is used e.g. in compiling the red data book of endangered species and more specific assignments.
  - \* ARC makes a societal contribution through education of the public. The general public is interested in birds and also volunteers contribute the bulk of information stewarded by the Monitoring Team. Efforts to communicate research findings back to the public include appearance in the national media. ARC research typically has several features on national TV and radio per year, and regularly appears in specialised popular science journals or in general newspaper articles.
  - \* Public information posted on the internet provides a further communication line. For example, the results of the national mapping of breeding birds in the last years is made publicly available.
  - \* Pls of ARC hold membership in a societal board.
- Ways to strengthen the societal impact of the RC's research and doctoral training.
  - \* Keeping up good contacts with media and preparing public information for the media use in collaboration with media professionals. Improving communication skills of PhD candidates. This could actually be done best through the graduate schools.
  - \* Regular or systematic press releases. ARC has been doing this, often through the PR office of the U of H, but this could be done in a more systematic fashion. Local news channels (always hungry for information) could be contacted more.
  - \* Active contact to politicians and decision makers is now largely lacking, but this could be improved.



INTERNATIONAL EVALUATION OF RESEARCH AND DOCTORAL TRAINING AT THE  
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RC-SPECIFIC STAGE 2 MATERIAL

4 INTERNATIONAL AND NATIONAL (INCL. INTERSECTORAL) RESEARCH COLLABORATION AND RESEARCHER  
MOBILITY (MAX. 4400 CHARACTERS WITH SPACES)

- Description of the RC's research collaborations and joint doctoral training activities and how the RC has promoted researcher mobility.
  - \* ARC researchers have a wide (inter)national network of collaborators as is evident from the list of publications.
  - \* ARC has attracted foreign researchers to join for a temporary period, bringing their own financing. Gienapp (from Netherlands, 1 year), de Heij (from Netherlands, 2 years) and Penteriani (from Spain, 2 years) have brought important outside perspectives to the ARC.
  - \* Part of the inter(national) collaboration involves doctoral training. Certain PhD student projects are carried out in close research collaboration with other institutes. For example, collaboration with the University of Jyväskylä (Heli Siitari) has been important in two doctoral trainings (Pitala, Klun). Collaboration with the Centre for Conservation Biology (Trondheim, Henrik Jensen) has been crucial to Kekkonen's doctoral training. Collaboration with University of British Columbia (Vancouver, Ron Ydenberg) was instrumental in the doctoral training of Jaatinen. These projects involve mobility (of the student staying 1 – 12 weeks at the relevant institute).
  - \* Collaboration with national state research institutes include, for example, the Finnish Environmental Institute (Burgas), Forestry Research Institute (Lehikoinen) and Fish and Wildlife Research Institute (Pavon). To some extent, these institutes are also potential end users of our PhDs and collaboration with them is therefore important in terms of potential future careers.
- RC's strengths and challenges related to research collaboration and researcher mobility, and the actions planned for their development.
  - \* ARC already collaborates with a majority of the national state agencies/universities in which birds are in the focus for research. The international collaboration network is also well-represented. As a part of the ongoing research new contacts are continuously bound.
  - \* Mobility from ARC PIs to other institutes could be improved.

5 OPERATIONAL CONDITIONS (MAX. 4400 CHARACTERS WITH SPACES)

- Description of the operational conditions in the RC's research environment (e.g. research infrastructure, balance between research and teaching duties).

The research infrastructure in the ARC varies.

  - \* The BEU is part of the Major of Ecology and Evolutionary Biology (EEB), where support is of a high standard. Major of EEB actively promotes research. There is, however, pressure on those PIs that hold teaching positions (Byholm, Pietiäinen) for participating in administrative and other teaching-related activities.
  - \* ARC researchers, even when holding a teaching position, are allowed to spend reasonable amounts of time in the field.
  - \* The Monitoring Team of the ARC sits at the Zoological Museum (part of the Museum of Natural History), where the administrative load is heavy, although there are no requirements for teaching. Museum has provided little support for research, and especially has tended to emphasize reporting above publication, and taxonomic research above the ecological research carried out by the MT.



## INTERNATIONAL EVALUATION OF RESEARCH AND DOCTORAL TRAINING AT THE UNIVERSITY OF HELSINKI

### RC-SPECIFIC STAGE 2 MATERIAL

- \* One infrastructure that is important for the ARC (especially the BEU) is the Molecular Ecology and Systematics (MES) lab, which is a joint operation by several actors including the Museum, and is hosted by the Maj of EEB. MES lab employs a coordinator and several technicians, such that own-cost projects can be carried out by ARC in a supportive lab environment.
- \* Apart from room, phone, computer, library access and printing, there is no/little support for research provided by HY. All infrastructure (even when owned by HY) is on a by-cost basis. ARC's research is not carried out in the field stations that belong to the Dept. The Dept has no general equipment (apart from the MES lab) that can be used, or research funds to support the ARC. The Dept does not provide any compensation for travel expenses of field work. This is a shortcoming, given the importance of long term field data for the research of the RC (there is no external funding body that would fund a >30-year population study) and the fact that "environmental change" is a key focus for HY.
- \* The ARC receives very little support for human resources. Very little time of technicians or other personnel is made available for research purposes. The time allocation decisions of, for example, MES lab technicians that can be used by the RCs are diffuse.
- RC's strengths and challenges related to operational conditions, and the actions planned for their development.
  - \* Because the majority of infrastructure must be financed by the researcher, the research is limited by the funding. The ARC's strategy is to assure baseline efforts for the long-term work on our study systems, and have periods of more intensive research whenever financing allows them.
  - \* In addition, ARC is actively seeking collaboration with volunteer ornithologists who, for their own reasons, have a long-term study going on and are interested in having researchers work with their data.
  - \* Because of reforms, the current climate for research funding is getting increasingly competitive. One future strategy is to increase our focus on making 'clever' use of already existing information and actively tapping into this. In this sense, the monitoring data stewarded by the MT present a considerable and largely unexplored resource. The new (starting autumn 2010) directors of the Finnish Museum of Natural History and the Zoological Museum are implementing a change in the culture there that appears to hold promise for increased future support for research activity.

#### 6 LEADERSHIP AND MANAGEMENT IN THE RESEARCHER COMMUNITY (MAX. 4400 CHARACTERS WITH SPACES)

- Description of the execution and processes of leadership in the RC, how the management-related responsibilities and roles are distributed in the RC and how the leadership- and management-related processes support high quality research, collaboration between principal investigators and other researchers in the RC, the RC's research focus and strengthening of the RC's know-how.
  - \* The ARC has no leader. The PIs all hold approximately equal positions within the ARC, where the main differences are because of their current duties (teaching/admin or 'freed' for research by personal funding).
  - \* Each PI is largely responsible for running his own research and Ph.D. student teaching.
  - \* The BEU has a group meeting every second week, where the focus is on keeping all members up-to-date and asking/providing feedback from the other group members.
  - \* The whole ARC has few joined meetings (only one joined workshop).





## INTERNATIONAL EVALUATION OF RESEARCH AND DOCTORAL TRAINING AT THE UNIVERSITY OF HELSINKI

### RC-SPECIFIC STAGE 2 MATERIAL

- \* PIs and other researchers collaborate on a number of issues in different constellations within the ARC. This collaboration is natural and spontaneous, and largely derives from the shared research interests that have defined the ARC to begin with.
- \* Also because they sit in several PhD students' support groups, PIs are generally aware of what is going on with other researchers' work.
- RC's strengths and challenges related to leadership and management, and the actions planned for developing the processes.
- \* The synergy created by collaboration between ARC members is a great asset of the ARC.
- \* To ensure that this synergy stays vital, it is especially important to increase the communication between MT and BEU. The geographical distance between the physical locations of the two research groups hampers this, but is a poor excuse.

#### 7 EXTERNAL COMPETITIVE FUNDING OF THE RC

- Listing of the RCs external competitive funding, where:
  - the funding decisions have been made during 1.1.2005-31.12.2010, and
  - the administrator of the funding is/has been the University of Helsinki
- Academy of Finland (AF) - total amount of funding (in euros) AF has decided to allocate to the RC members during 1.1.2005-31.12.2010: 1770000
- Finnish Funding Agency for Technology and Innovation (TEKES) - total amount of funding (in euros) TEKES has decided to allocate to the RC members during 1.1.2005-31.12.2010: No such funding was applied for
- European Union (EU) - total amount of funding (in euros) EU has decided to allocate to the RC members during 1.1.2005-31.12.2010: No such funding was applied for
- European Research Council (ERC) - total amount of funding (in euros) ERC has decided to allocate to the RC members during 1.1.2005-31.12.2010: No such funding was granted
- International and national foundations – names of international and national foundations which have decided to allocate funding to the RC members during 1.1.2005-31.12.2010, and the amount of their funding (in euros).
  - names of the foundations: PB:
  - Kone Foundation: 62000 (2010)
  - Societas pro Fauna & Flora Fennica 770,21 euro (2009)
  - Maj & tor Nessling: 16962,50 euro (2008-2010)
  - Suomen Kulttuurirahasto: 5000 euro (2008)
  - Finnish Society of Science and Letters: 3000 euro (2010) & 4000 (2007)
  - Ella & Georg Ehrnrooth: 3500 euro (2007)
  - Svenska Kulturfonden: 1500 euro (2005)



INTERNATIONAL EVALUATION OF RESEARCH AND DOCTORAL TRAINING AT THE  
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RC-SPECIFIC STAGE 2 MATERIAL

- JV:
  - Kone Foundation, 83 760 € (27 Nov 2006)
  - Kone Foundation, 45 000 € (30 Nov 2007)
  - Kone Foundation, 50 000 € (24 Nov 2008)
- KJ: Delta Waterfowl Foundation 10 000
- JEB: Nessling Foundation 12 000
- total amount of funding (in euros) from the above-mentioned foundations: 298000
- Other international funding - names of other international funding organizations which have decided to allocate funding to the RC members during 1.1.2005-31.12.2010, and the amount of their funding (in euros).
  - names of the funding organizations:
  - total amount of funding (in euros) from the above-mentioned funding organizations: No international funding that was administered by HU.
- Other national funding (incl. EVO funding and Ministry of Education and Culture funded doctoral programme positions) - names of other national funding organizations which have decided to allocate funding to the RC members during 1.1.2005-31.12.2010, and the amount of their funding (in euros).
  - names of the funding organizations:
  - total amount of funding (in euros) from the above-mentioned funding organizations: No national funding that was administered by HU.

8 RC'S STRATEGIC ACTION PLAN FOR 2011–2013 (MAX. 4400 CHARACTERS WITH SPACES)

- Description of the RC's future perspectives in respect to research and doctoral training.
  - \* ARC will actively develop its research in the forthcoming years by initiating new projects providing doctoral training within its fields of expertise. As a part of this strategy, we plan to increase joint funding applications including several PIs to be submitted to Academy of Finland and various national foundations.
  - \* Given the multifaceted study fields within ARC, the doctoral students will be qualified for a variety of expert positions. This readiness includes not only future scientific research in the post-doc stage and beyond, but also eligibility to work at expert positions within administration.
  - \* Mobility and international collaboration will be actively promoted whenever they will concretely benefit the research.

9 SHORT DESCRIPTION OF HOW THE RC MEMBERS HAVE CONTRIBUTED TO THE COMPILATION OF THE STAGE 2 MATERIALS (MAX. 1100 CHARACTERS WITH SPACES).

PIs have first discussed the general matters, then JB wrote the first draft which everyone else commented.



# INTERNATIONAL EVALUATION OF RESEARCH AND DOCTORAL TRAINING AT THE UNIVERSITY OF HELSINKI

## RC-SPECIFIC TUHAT COMPILATIONS OF PUBLICATIONS DATA 2005-2010

ARC/Brommer

### 1 Analysis of publications

- Associated person is one of Jon Brommer , Daniel Burgas Riera, Patrik Byholm , Sara Calhim ,  
Patrik Karell , Edward Klun , Toni Laaksonen , Aleks  
Lehikoinen , Timo Pakkala , Diego Pavon Jordan, Vincenzo Penteriani , Hannu  
Pietäinen , Markus Valdemar Piha , Kalle Rainio , Andrea Santangeli ,  
Jari Valkama , Wiebke Schutt , Saija Maria Sirkä , Risto A. Väisänen ,  
William Velmala , Ville Vepsäläinen , Heidi Björklund ,

Publication type	Publication year						Total Count 2005 - 2010
	2005	2006	2007	2008	2009	2010	
A1 Refereed journal article	12	10	16	13	13	28	92
A3 Contribution to book/other compilations (refereed)				3		2	5
A4 Article in conference publication (refereed)	1			1			2
B1 Unrefereed journal article	8	9	6	3	6	10	42
B2 Contribution to book/other compilations (non-refereed)			4			3	7
C1 Published scientific monograph		2					2
C2 Edited book, compilation, conference proceeding or special issue of journal						1	1
D1 Article in professional journal		1		1			2
D2 Article in professional hand or guide book or in a professional data system, or text book material		1	1	16			18
D4 Published development or research report			1	2	1	1	5
D5 Text book or professional handbook or guidebook or dictionary		1					1
E1 Popular article, newspaper article	15	26	20	21	37	29	148
E1 Popular contribution to book/other compilations		1				1	2
E2 Popular monograph						1	1



## INTERNATIONAL EVALUATION OF RESEARCH AND DOCTORAL TRAINING AT THE UNIVERSITY OF HELSINKI

### RC-SPECIFIC TUHAT COMPILATIONS OF PUBLICATIONS DATA 2005-2010

ARC/Brommer

## 2 Listing of publications

### A1 Refereed journal article

#### 2005

- Brommer, J, Merilä, J, Sheldon, BC, Gustafsson, L **2005**, 'Natural selection and genetic variation for reproductive reaction norms in a wild bird population', **Evolution**, vol 59, no. 6, pp. 1362-1371.
- Brommer, JE, Ahola, K, Karstinen, T **2005**, 'The colour of fitness: plumage coloration and lifetime reproductive success in the tawny owl', **Proceedings of the Royal Society B. Biological Sciences**, vol 272, pp. 935-940.
- Byholm, P **2005**, 'Site-specific variation in partial brood loss in northern goshawks', **Annales Zoologici Fennici**, vol 42, no. 2, pp. 81-90.
- Fred, MS, Brommer, JE **2005**, 'The decline and current distribution of *Parnassius apollo* (Linnaeus) in Finland; the role of Cd', **Annales Zoologici Fennici**, vol 42, pp. 69-79.
- Lehikoinen, A **2005**, 'Prey-switching and diet of the great cormorant during the breeding season in the Gulf of Finland', **Waterbirds**, vol 28, no. 4, pp. 511-515.
- Mikkonen, T, Valkama, J, Wihlman, H, Sukura, A **2005**, 'Spatial variation of *Trichinella* prevalence in rats in Finnish waste disposal sites', **Journal of Parasitology**, vol 91, no. 1, pp. 210-213.
- Sæther, B, Lande, R, Engen, S, Weimerskirch, H, Lillegård, M, Altwegg, R, Becker, PH, Bregnballe, T, Brommer, J, McCleery, RH, Merilä, J, Nyholm, E, Rendell, W, Robertson, RR, Tryjanowski, P, Visser, ME **2005**, 'Generation time and temporal scaling of bird population dynamics', **Nature**, vol 436, pp. 99-102.
- Sæther, B, Engen, S, Møller, AP, Visser, ME, Matthysen, E, Fiedler, W, Lambrechts, MM, Becker, PH, Brommer, J, Dickinson, J, Feu, CD, Gehlbach, FR, Merilä, J, Rendell, W, Robertson, RJ, Thomson, D, Török, J **2005**, 'Time to extinction of bird populations', **Ecology**, vol 86, no. 3, pp. 693-700.
- Valkama, J **2005**, 'Birds of prey as limiting factors of gamebird populations in Europe: a review', **Biological reviews of the Cambridge Philosophical Society**, vol 80, pp. 171-203.
- Valkama, J, Saurola, P **2005**, 'Mortality factors and population trends of the Eagle Owl *Bubo bubo* in Finland', **Ornithologischer Anzeiger**, vol 44, pp. 81-90.
- Vepsäläinen, V, Pakkala, T, Tiainen, J **2005**, 'Population increase and aspects of colonization of the Tree Sparrow *Passer montanus*, and its relationships with the House Sparrow *Passer domesticus*, in the agricultural landscapes of Southern Finland', **Ornis Fennica**, vol 82, pp. 117-128.
- Vepsäläinen, V, Pakkala, T, Piha, M, Tiainen, J **2005**, 'Population crash of the ortolan bunting *Emberiza hortulana* in agricultural landscapes of southern Finland', **Annales Zoologici Fennici**, vol 42, no. 2, pp. 91-107.

#### 2006

- Byholm, P, Nikula, A, Taivalmaki, J **2006**, 'The effect of territory quality on large-scale patterns of reproductive success in the Northern Goshawk', **Wilson Journal of Ornithology**, vol 147, pp. 144-145.
- Fred, MS, O'Hara, RB, Brommer, JE **2006**, 'Consequences of the spatial configuration of resources for the distribution and dynamics of the endangered *Parnassius apollo* butterfly', **Biological Conservation**, vol 130, no. 2, pp. 183-192.
- Jonzen, N, Linden, A, Ergon, T, Knudsen, E, Vik, JO, Rubolini, D, Piacentini, D, Brinch, C, Spina, F, Karlsson, L, Stervander, M, Andersson, A, Waldenström, J, Lehikoinen, A, Edvardsen, E, Solvang, R, Stenseth, NC **2006**, 'Rapid advance of spring arrival dates in long-distance migratory birds', **Science**, vol 312, no. 5782, pp. 1959-1961.
- Laaksonen, T, Ahola, M, Eeva, T, Väisänen, RA, Lehikoinen, E **2006**, 'Climate change, migratory connectivity and changes in laying date and clutch size of the pied flycatcher', **Oikos**, vol 114, no. 2, pp. 277-290.
- Lehikoinen, A **2006**, 'Cormorants in the Finnish archipelago', **Ornis Fennica**, vol 83, no. 1, pp. 34-46.
- Lehikoinen, A, Kilpi, M, Öst, M **2006**, 'Winter climate affects subsequent breeding success of common eiders', **Global Change Biology**, vol 12, no. 7, pp. 1355-1365.
- Qvarnstrom, A, Brommer, JE, Gustafsson, L **2006**, 'Evolutionary genetics - Evolution of mate choice in the wild - Reply', **Nature**, vol 444, no. 7121, pp. E16-E17.
- Qvarnstrom, A, Brommer, JE, Gustafsson, L **2006**, 'Testing the genetics underlying the co-evolution of mate choice and ornament in the wild', **Nature**, vol 441, pp. 84-86.
- Rainio, K, Laaksonen, T, Ahola, M, Vahatalo, AV, Lehikoinen, E **2006**, 'Climatic responses in spring migration of boreal and arctic birds in relation to wintering area and taxonomy', **Journal of Avian Biology**, vol 37, no. 5, pp. 507-515.
- Törnberg, R, Korpiimäki, E, Byholm, P **2006**, 'Ecology of the Northern Goshawk in Fennoscandia', **Studies in Avian Biology**, no. 31, pp. 141-157.



## INTERNATIONAL EVALUATION OF RESEARCH AND DOCTORAL TRAINING AT THE UNIVERSITY OF HELSINKI

### RC-SPECIFIC TUHAT COMPILATIONS OF PUBLICATIONS DATA 2005-2010

#### ARC/Brommer

##### **2007**

- Brommer, JE, Korsten, P, Bouwman, KA, Berg, ML, Komdeur, J **2007**, 'Is extrapair mating random? On the probability distribution of extrapair young in avian broods', **Behavioral Ecology**, vol 18, no. 5, pp. 895-904.
- Brommer, JE, Kirkpatrick, M, Qvarnstrom, A, Gustafsson, L **2007**, 'The Intersexual Genetic Correlation for Lifetime Fitness in the Wild and Its Implications for Sexual Selection', **PLoS One**, vol 2, no. 8, pp. e744.
- Brommer, JE, Wilson, AJ, Gustafsson, L **2007**, 'Exploring the genetics of aging in a wild passerine bird', **American Naturalist**, vol 170, no. 4, pp. 643-650.
- Brommer, JE, Fred, MS **2007**, 'Accounting for possible detectable distances in a comparison of dispersal: Apollo dispersal in different habitats', **Ecological Modelling**, vol 209, no. 2-4, pp. 407-411.
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## INTERNATIONAL EVALUATION OF RESEARCH AND DOCTORAL TRAINING AT THE UNIVERSITY OF HELSINKI

### RC-SPECIFIC TUHAT COMPILATIONS OF PUBLICATIONS DATA 2005-2010

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- Väisänen, RA **2009**, 'Vesilintuseuranta', **Suomen ympäristö**, no. 11/2009, pp. 85.
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#### **2010**

- Björklund, H **2010**, 'Williamin Jurmo', **Linnut**, vol 45, no. 4, pp. 42-43.
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- Björklund, H **2010**, 'Seppo ja monen rarin Kalajoki', **Linnut**, vol 45, no. 3, pp. 42-43.
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- Björklund, H **2010**, 'Olli ja uivelo', **Linnut**, vol 45, no. 2, pp. 42-43.
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- Rainio, K **2010**, 'Sarvipöllöjen retket', **Linnut**, vol 45, no. 1, pp. 15.
- Rainio, K **2010**, 'Kehrääjän salattu elämä', **Linnut**, vol 45, no. 3, pp. 17.
- Rainio, K **2010**, 'Uuttukyyhky lentää lounaaseen', **Linnut**, vol 45, no. 2, pp. 17.
- Valkama, J **2010**, 'Lassen matkassa Kokemäeltä Gaboniin', **Linnut**, vol 45, no. 4, pp. 17.
- Valkama, J **2010**, 'Petalintuvuosi 2009 - tuulihaukkojen voittokulku jatkui', **Satakunnan linnut**, vol 42, pp. 30-37.
- Velmala, W **2010**, 'Kahlaajakirjoissa kahlailua', **Tringa**, vol 37, no. 2, pp. 92-93.
- Velmala, W **2010**, 'Lintukoulu oppitunti 10: Lintujen paikkauskollisuus', **Linnut**, vol 45, no. 2, pp. 28-30.
- Velmala, W **2010**, 'Lintukoulu oppitunti 9: Sulat vaihtoon!', **Linnut**, vol 45, no. 1, pp. 28-31.
- Velmala, W **2010**, 'Lintukoulu oppitunti 12: Miten tieteelliset nimet äännetään?', **Linnut**, vol 45, no. 4, pp. 13-15.
- Velmala, W **2010**, 'Katsottu ja kokeiltu: Turkin linnut kartalla', **Linnut**, vol 45, no. 3, pp. 22.
- Velmala, W **2010**, 'Sinisiipitavi (Anas discors) Lumijoella 4.5.2004', **Aureola**, vol 29, pp. 139-140.
- Velmala, W, Lehikoinen, P **2010**, 'Määritysapua maastoon, matkalle ja museoon', **Tringa**, vol 37, no. 1, pp. 50-52.
- Velmala, W **2010**, 'Kashmirinuunilintu (Phylloscopus humei)', **Aureola**, vol 30, pp. 123.
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- Velmala, W **2010**, 'Madeiranviistäjien kolonia kärsi tuhopoltossa', **Suomen luonto**, vol 69, no. 8, pp. 15.
- Velmala, W **2010**, 'Katsottu ja kokeiltu: Lintuopas 2.0', **Linnut**, vol 45, no. 2, pp. 23.
- Velmala, W **2010**, 'Katsottu ja kokeiltu: Tunnelmointia lintuasemilta', **Linnut**, vol 45, no. 4, pp. 37.
- Velmala, W **2010**, 'Lintukoulu oppitunti 11: Apua! Väritys ei kerrokaan kaikkea', **Linnut**, vol 45, no. 3, pp. 18-20.
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- Velmala, W **2010**, 'Merisirrit tulevat Huippuvuorilta', **Suomen luonto**, vol 69, no. 10, pp. 12-13.
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#### E1 Popular contribution to book/other compilations

#### **2006**

- Valkama, J **2006**, 'Myyräsyklit ja petolinnut: petolinnuista yli puolet on riippuvaisia vaihtelevista myyräkannoista : hyvät myyrävuodet ovat odotettuja myös petolintukuvaajien keskuudessa', **Vuoden luontokuvat 2006. Suomen luonnon vuodenkierto**, **Suomen luonnonvalokuvaajat**, pp. 90-95.



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RC-SPECIFIC TUHAT COMPILATIONS OF PUBLICATIONS DATA 2005-2010

ARC/Brommer

**2010**

Katajisto, J, Lumiaro, R, Hellstedt, P, Heimovirta, M, Sirkä, SM **2010**, 'Mitä nykyihmisen jälkeen?', in J Katajisto, M Heimovirta, P Hellstedt, R Lumiaro, S Sirkä (eds), **Nisäkkäät: Luonnossa. 3, WSOY, Helsinki**, pp. 248-251.

**E2 Popular monograph**

**2010**

Katajisto, J (ed.), Heimovirta, M (ed.), Hellstedt, P (ed.), Riku, L (ed.), Sirkä, SM (ed.), Heimala, V **2010**, *Luonnossa Nisäkkäät 1-3, Weilin + Göös*.





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## RC-SPECIFIC TUHAT COMPILATIONS OF OTHER SCIENTIFIC ACTIVITIES 2005-2010

ARC/Brommer

### 1 Analysis of activities 2005-2010

- Associated person is one of Jon Brommer , Daniel Burgas Riera, Patrik Byholm , Sara Calhim ,  
Patrik Karell , Edward Klun , Toni Laaksonen , Aleks  
Lehikoinen , Timo Pakkala , Diego Pavon Jordan, Vincenzo Penteriani , Hannu  
Pietäinen , Markus Valdemar Pitha , Kalle Rainio , Andrea Santangeli ,  
Wiebke Schutt , Saija Maria Sirkia , Risto A. Väisänen ,  
Jari Valkama , William Velmala , Ville Vepsäläinen , Heidi Björklund ,

#### Activity type

Supervisor or co-supervisor of doctoral thesis	16
Prizes and awards	14
Editor of research journal	32
Peer review of manuscripts	98
Editor of communication journal	3
Editor of series	1
Assessment of candidates for academic posts	3
Membership or other role in review committee	7
Membership or other role in national/international committee, council, board	35
Membership or other role in public Finnish or international organization	16
Membership or other role of body in private company/organisation	24
Participation in interview for written media	73
Participation in radio programme	32
Participation in TV programme	21
Participation in interview for web based media	1



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ARC/Brommer

## 2 Listing of activities 2005-2010

### Supervisor or co-supervisor of doctoral thesis

#### **Jon Brommer ,**

Primary supervisor PhD student P. Karell, Jon Brommer, 01.01.2002 → 01.06.2007, Finland  
Primary supervisor PhD student N. Pitala, Jon Brommer, 01.03.2004 → 30.11.2007, Finland  
Supervisor PhD student P. Kontiainen, Jon Brommer, 01.05.2005 → 19.03.2010, Finland  
Primary supervisor PhD student E. Klun, Jon Brommer, 01.01.2006 → 2011, Finland  
Supervision of PhD student K. Rattiste, Jon Brommer, 01.01.2006 → 31.12.2006, Sweden  
Primary supervisor PhD student J. Kekkonen, Jon Brommer, 01.01.2007 → 28.02.2011, Finland  
Primary supervisor PhD student D. Pavon Jordan, Jon Brommer, 01.02.2010 → 2015, Finland

#### **Patrik Byholm ,**

A new cost-efficient tool for preservation of biodiversity in boreal forests, Patrik Byholm, 01.03.2009 → ...

#### **Toni Laaksonen ,**

Väitöskirjan ohjaus Paula Lehtonen, Toni Laaksonen, 2006 → 2010, Finland  
Väitöskirjan ohjaus Päivi Sirkä, Toni Laaksonen, 2007 → 2011, Finland  
Väitöskirjan ohjaus Suvi Ruuskanen, Toni Laaksonen, 2007 → 2010, Finland  
Väitöskirjan ohjaus Ville Vasko, Toni Laaksonen, 2008 → 2011, Finland  
Väitöskirjan ohjaus Andrea Santangeli, Toni Laaksonen, 2010 → 2011, Finland  
Väitöskirjan ohjaus Heidi Björklund, Toni Laaksonen, 2010 → 2011  
Väitöskirjan ohjaus William Velmala, Toni Laaksonen, 2010 → 2011, Finland

#### **Jari Valkama ,**

Väitöskirjatyön ohjaus (Heidi Björklund), Jari Valkama, 2009 → 2012

### Prizes and awards

#### **Jon Brommer ,**

Stora Priset, Jon Brommer, 2007, Finland

#### **Patrik Byholm ,**

Diploma issued for good supervision of MSc-theses in 2006, Patrik Byholm, 01.01.2006 → 31.12.2006  
Diploma issued for good supervision of MSc-theses in 2008, Patrik Byholm, 01.01.2008 → 31.12.2008

#### **Aleksi Lehikoinen ,**

Student award - The 3rd North American Sea Duck Conference, Aleksi Lehikoinen, 11.2008, Canada  
Environmental award of Sophie von Julins society to Hanko Bird Observatory - Hangon lintuasema - Sophie von Julins -säätiön ympäristöpalkinto, Aleksi Lehikoinen, 01.2010, Finland  
Newcomer of the year 2010 in the Museum of the Natural History - Vuoden Tulokas Luonnontieteellisessä keskusmuseossa, Aleksi Lehikoinen, 12.2010, Finland

#### **Diego Pavon Jordan**

Young Researcher's Grant, Diego Pavon Jordan, 01.08.2010 → 31.07.2011, Finland

#### **Saija Maria Sirkä ,**

Riistanhoito-Säätiön apuraha, Saija Maria Sirkä, 24.01.2006, Finland  
Science Foundation of the University of Helsinki, Saija Maria Sirkä, 01.01.2006, Finland



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### RC-SPECIFIC TUHAT COMPILATIONS OF OTHER SCIENTIFIC ACTIVITIES 2005-2010

#### ARC/Brommer

Chancellor's Travel Grant, Saija Maria Sirkä, 30.04.2007, Finland  
Graduate School Position, Saija Maria Sirkä, 01.01.2007 → 31.12.2010, Finland  
Chancellor's Travel Grant, Saija Maria Sirkä, 25.04.2008, Finland  
Grant from the Finnish Concordia Foundation, Saija Maria Sirkä, 15.04.2008, Finland  
Chancellor's Travel Grant, Saija Maria Sirkä, 30.04.2009, Finland

#### Editor of research journal

##### **Jon Brommer ,**

Editor-in-chief of Ornis Fennica, Jon Brommer, 01.01.2005 → 31.12.2007, Finland  
Review Editor for Journal of Evolutionary Biology, Jon Brommer, 01.01.2005 → 31.12.2008, United Kingdom  
Journal of Evolutionary Biology, Jon Brommer, 01.01.2006 → 31.12.2006, United Kingdom  
Ornis Fennica, Jon Brommer, 01.01.2006 → 31.12.2006, Finland  
Journal of Evolutionary Biology, Jon Brommer, 01.01.2007 → 31.12.2007, United Kingdom  
Ornis Fennica, Jon Brommer, 01.01.2007 → 31.12.2007, Finland

##### **Toni Laaksonen ,**

Open Ornithology, Toni Laaksonen, 2007 → 2011  
Open Zoology, Toni Laaksonen, 2007 → 2011  
Ornis Fennica, Toni Laaksonen, 2007 → 2011, Finland

##### **Aleksi Lehikoinen ,**

Ornis Fennica, Aleksi Lehikoinen, 2008 → ..., Finland  
Ibis, Aleksi Lehikoinen, 10.2010 → ..., United Kingdom

##### **Hannu Pietiäinen ,**

Acta Zoologica Sinica, Hannu Pietiäinen, 01.01.2005 → 31.12.2005, China  
Annales Zoologici Fennici, Hannu Pietiäinen, 01.01.2005 → 31.12.2005, Finland  
Canadian Journal of Zoology, Hannu Pietiäinen, 01.01.2005 → 31.12.2005, Canada  
Journal of Avian Biology, Hannu Pietiäinen, 01.01.2005 → 31.12.2005, Sweden  
Ornis Fennica, Hannu Pietiäinen, 01.01.2005 → 31.12.2005, Finland  
Journal of Avian biology, Hannu Pietiäinen, 01.01.2006 → 31.12.2006, Sweden  
Ornis Fennica, Hannu Pietiäinen, 01.01.2006 → 31.12.2006, Finland  
Animal Behaviour, Hannu Pietiäinen, 01.01.2007 → 31.12.2007, United Kingdom  
Annales Zoologici Fennici, Hannu Pietiäinen, 01.01.2007 → 31.12.2007, Finland  
Behavioural Ecology and Sociobiology, Hannu Pietiäinen, 01.01.2007 → 31.12.2007, Germany  
Canadian Journal of Zoology, Hannu Pietiäinen, 01.01.2007 → 31.12.2007, Canada  
Journal of Avian Biology, Hannu Pietiäinen, 01.01.2007 → 31.12.2007, Sweden  
Ornis Fennica, Hannu Pietiäinen, 01.01.2007 → 31.12.2007, Finland  
American Naturalist, Hannu Pietiäinen, 01.01.2008 → 31.12.2008, United States  
Canadian Journal of Zoology, Hannu Pietiäinen, 01.01.2008 → 31.12.2008, Canada  
Journal of Avian Biology, Hannu Pietiäinen, 01.01.2008 → 31.12.2008, Sweden  
Ornis Fennica, Hannu Pietiäinen, 01.01.2008 → 31.12.2008, Finland

##### **Risto A. Väisänen ,**

Annales Zoologici Fennici, Risto A. Väisänen, 24.11.2005 → 31.12.2005, Finland  
Ornis Fennica, Risto A. Väisänen, 23.05.2005 → 31.12.2005, Finland



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RC-SPECIFIC TUHAT COMPILATIONS OF OTHER SCIENTIFIC ACTIVITIES 2005-2010

ARC/Brommer

Ornis Svecica, Risto A. Väisänen, 22.08.2006 → 31.12.2006, Sweden

Wildlife Biology, Risto A. Väisänen, 08.03.2007 → 31.12.2007, Finland

**Peer review of manuscripts**

**Patrik Byholm ,**

Canadian Journal of Zoology, Patrik Byholm, 01.01.2005 → 31.12.2005, Canada

Journal of Animal Ecology, Patrik Byholm, 01.01.2005 → 31.12.2005, United Kingdom

Oikos, Patrik Byholm, 01.01.2005 → 31.12.2005, Sweden

Ornis Fennica, Patrik Byholm, 01.01.2005 → 31.12.2005, Finland

Acta Zoologica Sinica, Patrik Byholm, 01.01.2006 → 31.12.2006, China

Journal of Avian Biology, Patrik Byholm, 01.01.2006 → 31.12.2006, Sweden

Oecologia, Patrik Byholm, 01.01.2006 → 31.12.2006, Germany

Ornis Fennica, Patrik Byholm, 01.01.2006 → 31.12.2006, Finland

Suomen Riista, Patrik Byholm, 01.01.2006 → 31.12.2006, Finland

Annales Zoologici Fennici, Patrik Byholm, 01.01.2007 → 31.12.2007, Finland

Forest Ecology and Management, Patrik Byholm, 01.01.2007 → 31.12.2007, Netherlands

Ibis, Patrik Byholm, 01.01.2007 → 31.12.2007, United Kingdom

Israel Journal of Ecology and Evolution, Patrik Byholm, 01.01.2007 → 31.12.2007, Israel

Oikos, Patrik Byholm, 01.01.2007 → 31.12.2007, Denmark

Ornis Fennica, Patrik Byholm, 01.01.2007 → 31.12.2007, Finland

Wilson Journal of Ornithology, Patrik Byholm, 01.01.2007 → 31.12.2007, United States

Forest Ecology and Management, Patrik Byholm, 01.01.2008 → 31.12.2008, Netherlands

Ibis, Patrik Byholm, 01.01.2008 → 31.12.2008, United Kingdom

Natura Croatica, Patrik Byholm, 01.01.2008 → 31.12.2008, Croatia

Ornis Fennica, Patrik Byholm, 01.01.2008 → 31.12.2008, Finland

**Patrik Karell ,**

Evolutionary Ecology, Patrik Karell, 20.07.2006 → 31.12.2006

Hormones and behavior, Patrik Karell, 01.12.2007 → 31.12.2007, United States

Oecologia, Patrik Karell, 01.11.2007 → 30.11.2007, Germany

Ornis Fennica, Patrik Karell, 01.08.2007 → 31.12.2007, Finland

Annales Zoologici Fennici, Patrik Karell, 01.01.2008 → 31.12.2008

Bird study, Patrik Karell, 01.01.2008 → 31.12.2008

Journal of Animal Ecology, Patrik Karell, 01.01.2008 → 31.12.2008

Journal of Ornithology, Patrik Karell, 01.01.2008 → 31.12.2008

Acta Ornithologica, Patrik Karell, 01.01.2009 → 31.12.2009

American Naturalist, Patrik Karell, 01.01.2009 → 12.12.2009

Behavioural Ecology and Sociobiology, Patrik Karell, 01.01.2009 → 31.12.2009

Journal of Field Ornithology, Patrik Karell, 01.01.2009 → 31.12.2009

Ecological Modelling, Patrik Karell, 01.01.2010

Mammalian Biology, Patrik Karell, 01.01.2010 → 12.12.2010

**Toni Laaksonen ,**

Animal Behaviour, Toni Laaksonen, 2010 → ...



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RC-SPECIFIC TUHAT COMPILATIONS OF OTHER SCIENTIFIC ACTIVITIES 2005-2010

ARC/Brommer

Animal Conservation, Toni Laaksonen, 2010 → ...  
Biology Letters, Toni Laaksonen, 2010 → ...  
Functional Ecology, Toni Laaksonen, 2010 → ...  
Journal of Evolutionary Biology, Toni Laaksonen, 2010 → ...  
Open Ornithology, Toni Laaksonen, 2010 → ...

**Aleksi Lehikoinen ,**

Ornis Fennica, Aleksi Lehikoinen, 2005 → 2010  
Journal of Natural History, Aleksi Lehikoinen, 2007  
Oikos, Aleksi Lehikoinen, 2007  
Ibis, Aleksi Lehikoinen, 2008 → 2010  
Polar Biology, Aleksi Lehikoinen, 2008  
Global Change Biology, Aleksi Lehikoinen, 2009  
Journal of Ornithology, Aleksi Lehikoinen, 2009 → 2010  
Oecologia, Aleksi Lehikoinen, 2009 → 2010  
Biological Reviews, Aleksi Lehikoinen, 2010  
Biology Letters, Aleksi Lehikoinen, 2010  
Climate Research, Aleksi Lehikoinen, 2010  
Polar Biology, Aleksi Lehikoinen, 2010  
Suomen Riista, Aleksi Lehikoinen, 2010

**Hannu Pietiäinen ,**

Reviewer for Acta Zoologica Sinica, Hannu Pietiäinen, 2005 → ...  
Reviewer for Annales Zoologici Fennici, Hannu Pietiäinen, 2005 → 2010  
Reviewer for Canadian Journal of Zoology, Hannu Pietiäinen, 2005 → 2010  
Reviewer for Journal of Avian Biology, Hannu Pietiäinen, 2005 → 2010  
Reviewer for Ornis Fennica, Hannu Pietiäinen, 2005 → 2009  
Reviewer for Animal Behaviour, Hannu Pietiäinen, 2007 → ...  
Reviewer for Behavioural Ecology and Sociobiology, Hannu Pietiäinen, 2007 → ...  
Reviewer for American Naturalist, Hannu Pietiäinen, 2008 → ...  
Reviewer for PLoS ONE, Hannu Pietiäinen, 2009 → ...

**Markus Valdemar Piha ,**

Ornis Fennica, Markus Valdemar Piha, 16.05.2005  
Oikos, Markus Valdemar Piha, 29.10.2006  
Ornis Fennica, Markus Valdemar Piha, 18.09.2006  
Ecography, Markus Valdemar Piha, 2007  
Ornis Fennica, Markus Valdemar Piha, 02.05.2007  
Journal of Environmental Management, Markus Valdemar Piha, 28.02.2008  
Ornis Fennica, Markus Valdemar Piha, 30.05.2008  
Acta Ornithologica, Markus Valdemar Piha, 19.03.2009  
Agriculture, Ecosystems & Environment, Markus Valdemar Piha, 17.11.2009  
Agriculture, Ecosystems & Environment, Markus Valdemar Piha, 05.09.2009  
Ornis Fennica, Markus Valdemar Piha, 08.2009



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Biological Conservation, Markus Valdemar Piha, 01.2010

Climate Research, Markus Valdemar Piha, 03.12.2010

**Saija Maria Sirkiä ,**

Reviewer of an article for Ornis Fennica, Saija Maria Sirkiä, 17.12.2008

Reviewer of an article for Ornis Fennica, Saija Maria Sirkiä, 11.05.2009

Reviewer of an article for European Journal of Wildlife Research, Saija Maria Sirkiä, 01.06.2010

Reviewer of an article for European Journal of Wildlife Research, Saija Maria Sirkiä, 24.08.2010

**Jari Valkama ,**

Ornis Fennica, Jari Valkama, 22.10.2004 → ..., Finland

Annales Zoologici Fennici, Jari Valkama, 01.01.2005 → 31.12.2005, Finland

Ecological Research, Jari Valkama, 01.01.2005 → 31.12.2005, Japan

Oecologia, Jari Valkama, 01.01.2005 → 31.12.2005, Germany

Ornis Fennica, Jari Valkama, 01.01.2005 → 31.12.2005, Finland

Ecography, Jari Valkama, 01.01.2006 → 31.12.2006

Journal of Field Ornithology, Jari Valkama, 01.01.2006 → 31.12.2006

Ibis, Jari Valkama, 05.09.2007, United Kingdom

Journal of Avian Biology, Jari Valkama, 17.12.2007, Sweden

Journal of Field Ornithology, Jari Valkama, 30.07.2007, United States

IBIS, Jari Valkama, 19.02.2008

Ornis Fennica, Jari Valkama, 01.01.2008 → 31.12.2008, Finland

Behavioral Ecology and Sociobiology, Jari Valkama, 27.09.2010

Condor, Jari Valkama, 26.08.2010

Folia Zoologica, Jari Valkama, 28.12.2010

Journal of Ornithology, Jari Valkama, 01.08.2010 → 31.08.2010

Journal of Raptor Research, Jari Valkama, 29.03.2010

Ornis Fennica, Jari Valkama, 02.12.2010

**Heidi Björklund ,**

Journal of Raptor Research, Heidi Björklund, 2009, United States

**Editor of communication journal**

**Aleksi Lehikoinen ,**

Alula birding magazine, Aleksi Lehikoinen, 2007 → 2008, Finland

**William Velmala ,**

Linnut birding magazine, William Velmala, 01.01.2003 → ..., Finland

**Heidi Björklund ,**

Editor, Linnut-magazine, Heidi Björklund, 01.01.2003 → 31.12.2011, Finland

**Editor of series**

**Saija Maria Sirkiä ,**

Editor of the book series "Luonnossa: Nisäkkäät", Saija Maria Sirkiä, 01.12.2008 → 31.01.2010



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#### **Assessment of candidates for academic posts**

**Hannu Pietiäinen ,**

Reviewer for a docentship, Hannu Pietiäinen, 2008 → ..., Finland

Reviewer for a docentship, Hannu Pietiäinen, 2008 → ..., Finland

Reviewer for a docentship, Hannu Pietiäinen, 2009 → ..., Finland

#### **Membership or other role in review committee**

**Jon Brommer ,**

External reviewer NERC, Jon Brommer, 2006, United Kingdom

External reviewer NWO, Jon Brommer, 2006, United Kingdom

External reviewer for NERC, Jon Brommer, 2008, United Kingdom

Evaluation of MacArthur Fellowship, Jon Brommer, 2009, United States

External reviewer for NSF, Jon Brommer, 2009, United States

Royal Society Research Evaluator, Jon Brommer, 2009, United Kingdom

NERC reviewer, Jon Brommer, 2010, United Kingdom

#### **Membership or other role in national/international committee, council, board**

**Jon Brommer ,**

BirdLife Finland Scientific Board, Jon Brommer, 01.01.2005 → 31.12.2007, Finland

**Patrik Byholm ,**

Board member (vice president 2003-2005), Patrik Byholm, 01.12.1999 → 31.05.2005, Finland

**Toni Laaksonen ,**

WWF merikotkatyöryhmä, Toni Laaksonen, 2007 → 2011

European Ornithologists' Union Board member, Toni Laaksonen, 2009 → 2011

International Ornithological Union Board member, Toni Laaksonen, 2010 → 2011

**Hannu Pietiäinen ,**

Member of the board, Hannu Pietiäinen, 2007 → ..., Finland

Suomen eläin- ja kasvitieteen julkaisutoimikunta, Hannu Pietiäinen, 01.01.2007 → 31.12.2007, Finland

Chairman, vice, Hannu Pietiäinen, 2008 → ..., Finland

Suomen eläin- ja kasvitieteen julkaisutoimikunta, Hannu Pietiäinen, 01.01.2008 → 31.12.2008, Finland

Chairman, Hannu Pietiäinen, 2009 → 2010, Finland

**Saija Maria Sirkiä ,**

Tutkimuksen ja jatkokutkintojen kehittämisen toimikunta, Saija Maria Sirkiä, 29.01.2008 → 31.12.2010, Finland

**Risto A. Väisänen ,**

BirdLife Suomen linnunnimistötoimikunta, Risto A. Väisänen, 01.01.2005 → 31.12.2005, Finland

European Bird Census Council, Risto A. Väisänen, 01.01.2005 → 31.12.2005

BirdLife Suomen IBA-työryhmä (Important Bird Areas), Risto A. Väisänen, 01.01.2006 → 31.12.2006, Finland

BirdLife Suomen linnunnimistötoimikunta, Risto A. Väisänen, 01.01.2006 → 31.12.2006, Finland

European Bird Census Council, Risto A. Väisänen, 01.01.2006 → 31.12.2006

Lintutyöryhmä (Suomen Ympäristökeskus), Risto A. Väisänen, 01.01.2006 → 31.12.2006, Finland

Suomen lintuatlastoimikunta, Risto A. Väisänen, 01.01.2006 → 31.12.2006, Finland

BirdLife Suomen IBA-työryhmä (Important Bird Areas), Risto A. Väisänen, 01.01.2007 → 31.12.2007, Finland



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BirdLife Suomen linnunnimistötoimikunta, Risto A. Väisänen, 01.01.2007 → 31.12.2007, Finland  
Lintutyöryhmä (Suomen Ympäristökeskus), Risto A. Väisänen, 01.01.2007 → 31.12.2007, Finland  
Suomen lintuatlastoimikunta, Risto A. Väisänen, 01.01.2007 → 31.12.2007, Finland  
BirdLife Suomen IBA-työryhmä (Important Bird Areas), Risto A. Väisänen, 01.01.2008 → 31.12.2008, Finland  
BirdLife Suomen linnunnimistötoimikunta, Risto A. Väisänen, 01.01.2008 → 31.12.2008, Finland  
Lintutyöryhmä (Suomen Ympäristökeskus), Risto A. Väisänen, 01.01.2008 → 31.12.2008, Finland  
Suomen lintuatlastoimikunta, Risto A. Väisänen, 01.01.2008 → 31.12.2008, Finland

#### **William Velmala ,**

Finnish National Rarities Committee member, William Velmala, 01.12.2005 → 31.12.2010, Finland  
Ohjelmatoimikunnan jäsen, William Velmala, 10.12.2008 → 31.12.2009, Finland  
Ohjelmatoimikunnan puheenjohtaja, William Velmala, 01.01.2010 → 31.12.2010, Finland

#### **Heidi Björklund ,**

Nimistötoimikunta. Committee of bird nomenclature, Heidi Björklund, 01.01.2005 → 31.12.2005, Finland  
Nimistötoimikunta. Committee of bird nomenclature, Heidi Björklund, 01.01.2006 → 31.12.2006, Finland  
Nimistötoimikunta. Committee of bird nomenclature, Heidi Björklund, 01.01.2007 → 31.12.2007, Finland  
Nimistötoimikunta. Committee of bird nomenclature, Heidi Björklund, 01.01.2008 → 31.12.2008, Finland  
Nimistötoimikunta. Committee of bird nomenclature, Heidi Björklund, 01.01.2009 → 31.12.2009, Finland  
Nimistötoimikunta. Committee of bird nomenclature, Heidi Björklund, 01.01.2010 → 31.12.2010, Finland

### **Membership or other role in public Finnish or international organization**

#### **Patrik Byholm ,**

Luonnontieteellinen keskusmuseo, Rengastustoiminnan tieteellinen kehittäminen, Patrik Byholm, 01.01.2008 → ..., Finland

#### **Aleksi Lehikoinen ,**

Finnish Cormorant commission, Aleksi Lehikoinen, 2004 → 2005, Finland  
Evaluation group of red listed birds in Finland, Aleksi Lehikoinen, 2007 → ..., Finland

#### **Markus Valdemar Piha ,**

member of a national expert group reporting the nature directives to European Commission (Ministry of Environment), Markus Valdemar Piha, 01.01.2008 → 31.07.2009, Finland

#### **Risto A. Väisänen ,**

Riista ja kalatalouden tutkimuslaitos, jolle toimitin Suomen vesilintujen kannanmuutosindeksit vuosilta 1986-2005, Risto A. Väisänen, 05.08.2005 → 31.12.2005, Finland  
Pan-European Common Bird Monitoring Scheme, jolle toimitin Suomen maalintulajien kannanmuutosindeksit vuosilta 1983-2005, Risto A. Väisänen, 01.01.2006 → 31.12.2006, Czech Republic  
Riista ja kalatalouden tutkimuslaitos, jolle toimitin Suomen vesilintujen kannanmuutosindeksit vuosilta 1986-2006, Risto A. Väisänen, 01.01.2006 → 31.12.2006, Finland  
Pan-European Common Bird Monitoring Scheme, jolle toimitin Suomen maalintulajien kannanmuutosindeksit vuosilta 1975-2006, Risto A. Väisänen, 01.01.2007 → 31.12.2007, Czech Republic  
Riista ja kalatalouden tutkimuslaitos, jolle toimitin Suomen vesilintujen kannanmuutosindeksit vuosilta 1986-2007, Risto A. Väisänen, 01.01.2007 → 31.12.2007, Finland  
Pan-European Common Bird Monitoring Scheme, jolle toimitin Suomen maalintulajien kannanmuutosindeksit vuosilta 1975-2007, Risto A. Väisänen, 01.01.2008 → 31.12.2008, Czech Republic  
Riista ja kalatalouden tutkimuslaitos, jolle toimitin Suomen vesilintujen kannanmuutosindeksit vuosilta 1986-2008, Risto A. Väisänen, 01.01.2008 → 31.12.2008, Finland  
Presentation of bird monitoring in Finland for the EU Membership of Turkey, Risto A. Väisänen, 13.07.2010, Finland





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##### **Jari Valkama ,**

BirdStrike -työryhmä, Jari Valkama, 02.10.2003 → ..., Finland

Lintutyöryhmä, Jari Valkama, 07.11.2006 → ..., Finland

##### **Ville Vepsäläinen ,**

BirdLife Suomen suojelutoimikunnan jäsen, Ville Vepsäläinen, 01.01.2006 → 31.12.2006, Finland

Helsingin Seudun Lintutieteellisen Yhdistyksen (Tringa ry.) tutkimustoimikunnan jäsen, Ville Vepsäläinen, 01.01.2006 → 31.12.2006, Finland

#### **Membership or other role of body in private company/organisation**

##### **Jon Brommer ,**

BirdLife Finland (Scientific Expert Panel), Jon Brommer, 01.01.2006 → 31.12.2006, Finland

BirdLife Finland (Scientific Expert Panel), Jon Brommer, 01.01.2007 → 31.12.2007, United Kingdom

##### **Patrik Byholm ,**

Sydbottens Natur och Miljö rf., board member, Patrik Byholm, 01.01.2005 → ..., Finland

Natur och Miljö rf., forest committee, member, Patrik Byholm, 01.01.2007 → 31.12.2008, Finland

Natur och Miljö rf., board member, Patrik Byholm, 01.05.2010 → ..., Finland

##### **Aleksi Lehikoinen ,**

Local Rarity Committee - Aluerariteettikomitea, Aleksi Lehikoinen, 1999 → 2005, Finland

Lintuasematoimikunnan jäsen - Bird observatory commission, Aleksi Lehikoinen, 2000 → ..., Finland

Manager of the Hango Bird Observatory - Hangon lintuaseman asemanhoitaja, Aleksi Lehikoinen, 11.2000 → ..., Finland

Local rarity committee - Aluerariteettitoimikunta, Aleksi Lehikoinen, 01.2006 → 01.2008, Finland

Scientific commission, Aleksi Lehikoinen, 2007 → ..., Finland

The Finnish National Rarities Committee, Aleksi Lehikoinen, 01.2008 → ..., Finland

##### **Markus Valdemar Piha ,**

Book keeper of a music production company Friisilän musakotkat a.y., Markus Valdemar Piha, 01.01.2001 → 31.12.2009, Finland

President of the Scientific committee of the Ornithological Association of Helsinki region, Tringa, Markus Valdemar Piha, 01.01.2003 → 31.12.2007, Finland

Vice president of the Ornithological Association of Helsinki region, Tringa, Markus Valdemar Piha, 01.01.2004 → 31.12.2005, Finland

President of the Ornithological Association of Helsinki region, Tringa, Markus Valdemar Piha, 01.01.2008 → 30.06.2009, Finland

##### **Jari Valkama ,**

BirdLife Suomi, hallitus, Jari Valkama, 01.01.2005 → 31.12.2006, Finland

BirdLife Suomi, tieteellinen toimikunta, Jari Valkama, 21.11.2006 → ..., Finland

Sääksisäätiö, hallitus, Jari Valkama, 01.01.2008 → ...

##### **Ville Vepsäläinen ,**

BirdLife Suomi, suojelutoimikunta, Ville Vepsäläinen, 01.01.2008 → 31.12.2008

##### **Heidi Björklund ,**

Member of board, BirdLife Finland, Heidi Björklund, 01.01.2005 → 31.12.2005, Finland

Member of board, BirdLife Finland, Heidi Björklund, 01.01.2006 → 31.12.2006, Finland

Member of board, BirdLife Finland, Heidi Björklund, 01.01.2007 → 31.12.2007, Finland

Member of board, BirdLife Finland, Heidi Björklund, 01.01.2008 → 31.12.2008, Finland

Member of board, BirdLife Finland, Heidi Björklund, 01.01.2009 → 31.12.2009, Finland



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**Participation in interview for written media**

**Jon Brommer ,**

Interview YES Mag, Jon Brommer, 2009, Canada

**Patrik Byholm ,**

Newspaper Ilkka, Patrik Byholm, 09.10.2005, Finland

Suomen Luonto-magazine, Patrik Byholm, 01.06.2008, Finland

Suomen Luonto-magazine, Patrik Byholm, 01.12.2010 → 31.12.2010

**Patrik Karell ,**

Hufvudstadsbladet, Patrik Karell, 14.06.2007, Finland

Västra Nyland, Patrik Karell, 02.06.2007, Finland

Helsingin Sanomat, Patrik Karell, 23.06.2009, Finland

**Edward Kluen ,**

Arka vai ärhäkkä sinitäinen?, Edward Kluen, 19.08.2008, Finland

**Hannu Pietiäinen ,**

Helsingin Sanomat, Hannu Pietiäinen, 01.04.2001 → 31.12.2011, Finland

Haastattelu kevättävella 2004, Hannu Pietiäinen, 01.01.2004 → 31.12.2011, Sweden

Tringa r.y:n kuukausikokous, Hannu Pietiäinen, 13.12.2007 → 31.12.2011, Finland

Etelä-Suomen Sanomat, Hannu Pietiäinen, 01.10.2008 → 31.12.2011, Finland

Interview in newspaper, Hannu Pietiäinen, 2008 → ...

**Markus Valdemar Piha ,**

Interview for a newspaper on urban birds including a personal profile, Markus Valdemar Piha, 11.07.2007

Interview for a newspaper: Open landscape and dairy husbandry is beneficial for birds, Markus Valdemar Piha, 18.06.2007

Interview for a university journal, Markus Valdemar Piha, 06.2007

Interview for a newspaper on bird watching in spring, Markus Valdemar Piha, 13.05.2008

Interview for a newspaper on kestrels (Falco tinnunculus), Markus Valdemar Piha, 17.08.2008

Interview for a newspaper: How migratory birds navigate?, Markus Valdemar Piha, 17.10.2008

Interview and field demonstration of bird ringing, Markus Valdemar Piha, 2009

**Kalle Rainio ,**

Pulunkakka piinaa Kontulassa, Kalle Rainio, 03.11.2010, Finland

**Risto A. Väisänen ,**

Suomen luonnonsuojeluliiton Kanaintuseminaari, Hyvinkää, Risto A. Väisänen, 05.08.2000 → 31.12.2011, Finland

Aamulehti, Risto A. Väisänen, 16.04.2003 → 31.12.2011, Finland

Kouvolan Sanomat, Risto A. Väisänen, 25.01.2003 → 31.12.2011, Finland

Kouvolan Sanomat, Risto A. Väisänen, 25.01.2003 → 31.12.2011, Finland

Satakunnan Kansa, Risto A. Väisänen, 21.01.2003 → 31.12.2011, Finland

Suomen Luonto, Risto A. Väisänen, 26.01.2003 → 31.12.2011, Finland

Anjalankosken Sanomat, Risto A. Väisänen, 13.01.2004 → 31.12.2011, Finland

Helsingin Sanomat, Kysy Kirstiltä -palsta, Risto A. Väisänen, 08.04.2004 → 31.12.2011, Finland

Kouvolan Sanomat, Risto A. Väisänen, 03.10.2004 → 31.12.2011, Finland

Luonnontieteellisen keskuksen yleisöluento, Risto A. Väisänen, 07.01.2004 → 31.12.2011, Finland

Aamulehti, Risto A. Väisänen, 02.02.2005 → 31.12.2011, Finland



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Aamulehti, Risto A. Väisänen, 14.06.2005 → 31.12.2011, Finland  
Kauppalehti, Risto A. Väisänen, 12.04.2005 → 31.12.2011, Finland  
Kouvola Sanomat, Risto A. Väisänen, 11.03.2005 → 31.12.2011, Finland  
Pohjois-Savo, Risto A. Väisänen, 19.03.2005 → 31.12.2011, Finland  
Riihimäen Seudun Viikko-utiset, Risto A. Väisänen, 26.05.2005 → 31.12.2011, Finland  
Uusimaa-lehti, Risto A. Väisänen, 17.03.2005 → 31.12.2011, Finland  
Etelä-Saimaa, Risto A. Väisänen, 10.01.2006 → 31.12.2011, Czech Republic  
Länsi-Savo ja Itä-Savo, Risto A. Väisänen, 31.01.2006 → 31.12.2011, Czech Republic  
Salon Seudun Sanomat, Risto A. Väisänen, 27.11.2006 → 31.12.2011, Czech Republic  
Suomen Luonto, Risto A. Väisänen, 01.12.2006 → 31.12.2011, Czech Republic  
Varkauden Lehti, Risto A. Väisänen, 15.12.2006 → 31.12.2011, Czech Republic  
Aamulehti, Risto A. Väisänen, 13.06.2007 → 31.12.2011, Czech Republic  
Etelä-Suomen Sanomat, Risto A. Väisänen, 15.01.2007 → 31.12.2011, Czech Republic  
Helsingin Sanomat, Risto A. Väisänen, 26.03.2007 → 31.12.2011, Czech Republic  
Kainuun Sanomat, Risto A. Väisänen, 13.02.2007 → 31.12.2011, Czech Republic  
Linnut-lehti, Risto A. Väisänen, 12.09.2007 → 31.12.2011, Czech Republic  
Tekniikka ja Ympäristö, Risto A. Väisänen, 28.05.2007 → 31.12.2011, Czech Republic  
Aamulehti, Risto A. Väisänen, 15.02.2008 → 31.12.2011, Czech Republic  
Karjalainen, Risto A. Väisänen, 07.08.2008 → 31.12.2011, Czech Republic  
Salon Seudun Sanomat: Talvilinnusto, Risto A. Väisänen, 27.03.2008, Czech Republic  
Satakunnan Kansa, Risto A. Väisänen, 23.01.2008 → 31.12.2011, Czech Republic  
Etelä-Saimaa: ketut, Risto A. Väisänen, 20.05.2010, Finland  
Hufvudstadsbladet: Winter bird census, Risto A. Väisänen, 08.01.2010, Finland  
Iltalehti: kyykäärme, Risto A. Väisänen, 19.05.2010, Finland  
Suomen Luonto: talvilintulaskennat, Risto A. Väisänen, 26.01.2010, Finland  
Suomenmaa: talitiaisen pesintä, Risto A. Väisänen, 22.04.2010, Finland

#### **Jari Valkama ,**

Salon Seudun Sanomat, Jari Valkama, 25.09.2005, Finland  
Aamulehti, Jari Valkama, 25.03.2006, Finland

#### **William Velmala ,**

Rengastajien työ kootaan kahdeksi kirjaksi, William Velmala, 23.11.2008, Finland  
Lintujen elinikä, William Velmala, 12.10.2009, Finland  
Muuttolintujen satelliittiseuranta, William Velmala, 22.09.2009, Finland  
Pulmusen muuttosuunnat, William Velmala, 08.01.2009, Finland  
Leppälintujen pesäpaikaukollisuus, William Velmala, 13.08.2010, Finland  
Rengas kertoo syntyjuuret, William Velmala, 13.04.2010, Finland

#### **Heidi Björklund ,**

Haastattelu lintuharrastuksesta, Heidi Björklund, 16.02.2005, Finland  
Kuikan kasvatti lintuharrastaja Heidi Björklund, Heidi Björklund, 03.2007, Finland  
Army of volunteers follow airborne predators, Heidi Björklund, 07.05.2009 → 13.05.2009, Finland  
Haastattelu Lasten lintupäivästä, Heidi Björklund, 08.06.2009, Finland



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Haastattelu kiljukturkan pesinnästä Pohjois-Pohjanmaalla, Heidi Björklund, 31.01.2009, Finland

Haastattelu variksista, Heidi Björklund, 06.2009 → ..., Finland

Tähyile tinttiä, suojele luontoa (haastattelu Pihabongauksesta), Heidi Björklund, 01.2010 → ..., Finland

#### Participation in radio programme

##### **Patrik Byholm ,**

Radio Vega, news, Patrik Byholm, 16.05.2008, Finland

Radio Vega, "Smältpunkt", Patrik Byholm, 30.11.2010

##### **Hannu Pietiäinen ,**

Interview on TV, Hannu Pietiäinen, 2005 → ...

Interview on radio, Hannu Pietiäinen, 2009 → ...

##### **Markus Valdemar Piha ,**

Radio interview on climate change and penguins, Markus Valdemar Piha, 02.07.2008

##### **Risto A. Väisänen ,**

Yleisradio, Risto A. Väisänen, 08.08.2007 → 31.12.2011, Czech Republic

##### **Jari Valkama ,**

Radio Helsinki, Jari Valkama, 04.04.2006, Finland

##### **Heidi Björklund ,**

Haastattelu talvilintulaskennasta. Interview on winter bird counts, Heidi Björklund, 27.12.2005, Finland

Viikon luontoäänen esittely (Presentation of the week's bird song): merikotka (*Haliaeetus albicilla*), Heidi Björklund, 31.07.2005, Finland

Viikon luontoäänen esittely (Presentation of the week's bird song): nuolihaukka (*Falco subbuteo*), Heidi Björklund, 31.07.2005, Finland

Viikon luontoäänen esittely (Presentation of the week's bird song): peukalainen (*Troglodytes troglodytes*), Heidi Björklund, 01.05.2005, Finland

Viikon luontoäänen esittely (Presentation of the week's bird song): pikkusiipio (*Ficedula parva*), Heidi Björklund, 29.05.2005, Finland

Viikon luontoäänen esittely (Presentation of the week's bird song): rantasipi (*Actitis hypoleucos*), Heidi Björklund, 12.06.2005, Finland

Viikon luontoäänen esittely (Presentation of the week's bird song): varpuspöllö (*Glaucidium passerinum*), Heidi Björklund, 27.03.2005, Finland

Viikon luontoäänen esittely (Presentation of the week's bird song): järripeippo (*Fringilla montifringilla*), Heidi Björklund, 16.07.2006, Finland

Viikon luontoäänen esittely (Presentation of the week's bird song): käpytikka (*Dendrocopos major*), Heidi Björklund, 19.03.2006, Finland

Viikon luontoäänen esittely (Presentation of the week's bird song): naurulokki (*Larus ridibundus*), Heidi Björklund, 13.08.2006, Finland

Viikon luontoäänen esittely (Presentation of the week's bird song): punakylkirastas (*Turdus iliacus*), Heidi Björklund, 16.04.2006, Finland

Viikon luontoäänen esittely (Presentation of the week's bird song): punatulku (*Pyrrhula pyrrhula*), Heidi Björklund, 17.09.2006, Finland

Viikon luontoäänen esittely (Presentation of the week's bird song): ruokokerttunen (*Acrocephalus schoenobaenus*), Heidi Björklund, 07.05.2006, Finland

Viikon luontoäänen esittely (Presentation of the week's bird song): västäräkki (*Motacilla alba*), Heidi Björklund, 30.07.2006, Finland

Viikon luontoäänen esittely (Presentation of the week's bird song): helmipöllö (*Aegolius funereus*), Heidi Björklund, 25.03.2007, Finland

Viikon luontoäänen esittely (Presentation of the week's bird song): metsäkirvinen (*Anthus trivialis*), Heidi Björklund, 06.05.2007, Finland

Viikon luontoäänen esittely (Presentation of the week's bird song): räkättirastas (*Turdus pilaris*), Heidi Björklund, 09.09.2007, Finland

Viikon luontoäänen esittely (Presentation of the week's bird song): sepelkyyhky (*Columba palumbus*), Heidi Björklund, 12.08.2007, Finland

Viikon luontoäänen esittely (Presentation of the week's bird song): tuulihaukka (*Falco tinnunculus*), Heidi Björklund, 01.07.2007, Finland

Viikon luontoäänen esittely (Presentation of the week's bird song): viherpeippo (*Carduelis chloris*), Heidi Björklund, 22.04.2007, Finland

Viikon luontoäänen esittely (Presentation of the week's bird song): harmaahaikara (*Ardea cinerea*), Heidi Björklund, 10.08.2008, Finland



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Viikon luontoäänen esittely (Presentation of the week's bird song): kirjosiippo (*Ficedula hypoleuca*), Heidi Björklund, 08.06.2008, Finland

Viikon luontoäänen esittely (Presentation of the week's bird song): närhi (*Garrulus glandarius*), Heidi Björklund, 24.08.2008, Finland

Viikon luontoäänen esittely (Presentation of the week's bird song): töyhtötiainen (*Parus cristatus*), Heidi Björklund, 23.03.2008, Finland

Haastattelu Pihabongauksesta. Interview, Heidi Björklund, 30.01.2010, Finland

**Participation in TV programme**

**Daniel Burgas Riera**

Espai Terra, Daniel Burgas Riera, 03.07.2009, Spain

**Patrik Byholm ,**

YLE FST5, "Uteliv", Patrik Byholm, 27.12.2010

**Patrik Karell ,**

YLE TV1 Teema, Patrik Karell, 01.01.2005

Yle Teema, Patrik Karell, 07.09.2010, Finland

**Toni Laaksonen ,**

YLE Prisma studio haastattelu, Toni Laaksonen, 25.11.2010

YLE uutiset haastattelu, Toni Laaksonen, 03.06.2010

**Hannu Pietiäinen ,**

Yle AamuTV, Hannu Pietiäinen, 01.05.2005 → 31.12.2011, Finland

**Markus Valdemar Piha ,**

Television interview based on farmland bird research, Markus Valdemar Piha, 09.05.2007

**Risto A. Väisänen ,**

MTV, Risto A. Väisänen, 14.11.2006 → 31.12.2011, Czech Republic

Yleis-TV: Lintujen talviruokinta, Risto A. Väisänen, 17.01.2007, Czech Republic

Mainos-TV, Risto A. Väisänen, 07.08.2008 → 31.12.2011, Czech Republic

**Jari Valkama ,**

TV-uutiset, Jari Valkama, 11.02.2006, Finland

**William Velmala ,**

Seitsemän Uutiset/Kymmenen Uutiset, William Velmala, 05.01.2010, Finland

**Ville Vepsäläinen ,**

TV 1, Aamu-tv, Luonto lähellä / Paul Segersvärd (Procam), Ville Vepsäläinen, 15.05.2006 → 31.12.2011, Finland

**Heidi Björklund ,**

Haastattelu talviliintulaskennasta. Interview on winter bird counts, Heidi Björklund, 06.03.2006, Finland

Paluu luontoon -ohjelma, Heidi Björklund, 29.05.2007, Finland

Paluu luontoon -ohjelma, Heidi Björklund, 04.09.2007, Finland

Haastattelu Tornien taisto -tapahtumasta, Heidi Björklund, 14.05.2008, Finland

Paluu luontoon -ohjelma, Heidi Björklund, 26.08.2008, Finland

Paluu luontoon -ohjelma, Heidi Björklund, 30.09.2008, Finland

Haastattelu Pihabongauksesta. Interview on 'yard bird count', Heidi Björklund, 24.01.2009, Finland



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**Participation in interview for web based media**

**Heidi Björklund ,**

Pihabongaus Tasavallan presidentin pihalla. Birdcount at the yard of the President of the Republic of Finland., Heidi Björklund,  
25.01.2009, Finland



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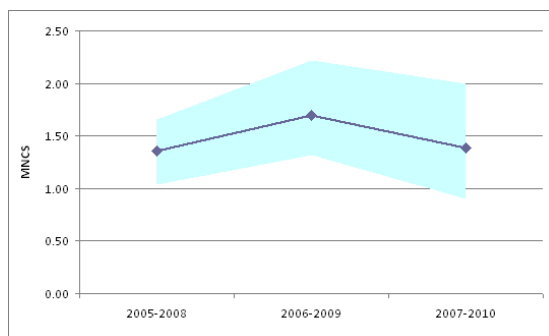
Web of Science(WoS)-based bibliometrics of the RC's publications data 1.1.2005-31.12.2010  
by CWTS, Leiden University, the Netherlands

Research Group: Brommer J

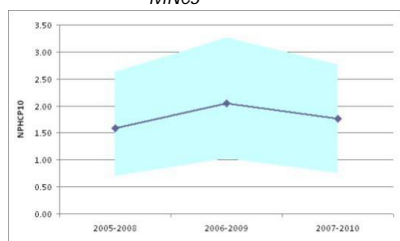
### Basic statistics

Number of publications (P)	80
Number of citations (TCS)	578
Number of citations per publication (MCS)	7.29
Percentage of uncited publications	33%
Field-normalized number of citations per publication (MNCS)	1.38
Field-normalized average journal impact (MNJS)	1.47
Field-normalized proportion highly cited publications (top 10%)	1.67
Internal coverage	.70

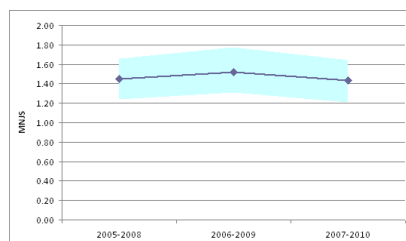
### Trend analyses



MNCS

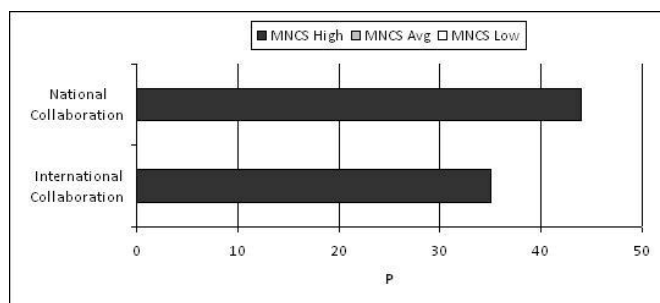


THCP10



MNJS

### Collaboration



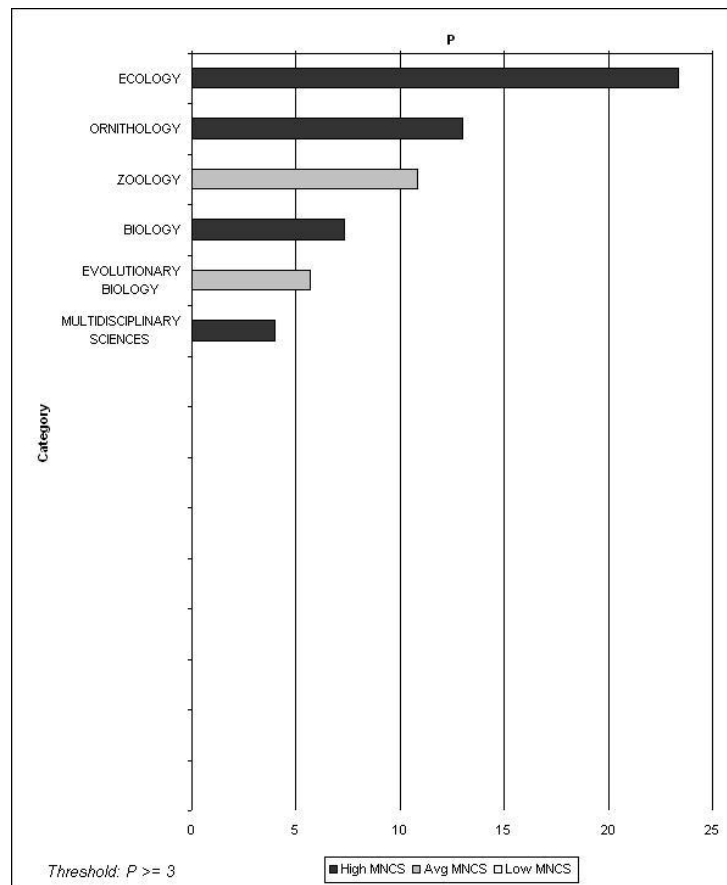
Performance (MNCS) by collaboration type



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*Research profile*





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